

SURFACE WATER INVESTIGATION REPORT

**MONTOUR STEAM ELECTRIC STATION
DERRY TOWNSHIP
MONTOUR COUNTY, PENNSYLVANIA**

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1.0 EXECUTIVE SUMMARY

This Surface Water Investigation Report was prepared by Civil & Environmental Consultants, Inc (CEC) on behalf of Montour, LLC to satisfy the Settlement Agreement dated March 1, 2021 between Montour and the Middle Susquehanna Riverkeepers Association (MSRKA). This report summarizes the findings of a one year investigation during 2022 of the surface water surrounding the Montour Steam Electric Station (MSES) in Chillisquaque Creek and tributaries to Mud Creek, in order to determine whether the surface water surrounding the MSES present an acceptable risk.

Twelve surface water locations were monitored quarterly in Chillisquaque Creek and its tributaries as well as Mud Creek and its tributaries. Surface water samples, quality assurance samples and field measurements were collected in accordance with the approved work plan for all sample locations during all four quarters of the investigation. No samples were rejected due to quality assurance sample results.

Water quality results were screened against Pennsylvania Code, Title 25, Chapter 93 Water Quality Criteria (WQC) for Toxic Substances (PADEP, 2018), the USEPA Region III BTAG Freshwater Screening Benchmarks, or other USEPA guidance. These screening criteria were used to identify constituents of concern for further study based on the number of benchmarks exceeded and the conservatism of the benchmarks.

Two samples for radium exceeded the screening criteria in the first quarter 2022 at Chillisquaque Creek. However, radium was not selected as a constituent of concern for further evaluation because the criteria is only applicable to public drinking water or at drinking water supply intakes, which do not exist in Mud Creek or Chillisquaque Creek. Additionally, the results were not observed in any other locations and not repeated during any other sampling events.

Three locations in Mud Creek tributaries exceeded screening criteria for total calcium, total lithium, sulfate and total dissolved solids (TDS) during several quarters. Sulfate and TDS criteria are only applicable to public drinking water or at drinking water supply intakes and were not selected as constituents of concern. Total calcium and total lithium screening criteria exceedances were only observed west of Ash Area 3. As stated in the USEPA guidance, selection of compounds that exceed these screening criteria as constituents of concern should be based on the number of benchmarks exceeded and the conservatism of the particular benchmark values. Based on the fact that only two constituents exceeded already conservative screening values, calcium and lithium were not selected as constituents of concern.

Based on the findings of this investigation none of the surface water quality detections were determined to be a constituent of concern warranting further investigation, and the surface waters in Chillisquaque Creek and Mud Creek were determined to present an acceptable risk.

2.0 INTRODUCTION

This Surface Water Investigation Report (Report) details the investigative approach for assessing surface water around the Montour, LLC (“Montour”) Montour Steam Electric Station (MSES), located in Derry Township, Montour County, Pennsylvania (Figure 1). This study was implemented to satisfy the Settlement Agreement dated March 1, 2021 between Montour and the Middle Susquehanna Riverkeepers Association (MSRKA). Item B.10 of the MSRKA agreement states:

Within ninety (90) days following the Effective Date of this Agreement, Montour shall propose a Sampling Plan tailored to identify whether the surface water in Chillisquaque Creek and Mud Creek present acceptable risk, based on [Pennsylvania Department of Environmental Protection] DEP Guidelines. The Parties will work together to arrive at a mutually agreed upon Sampling Plan, following DEP Guidelines; that plan will include sampling for strontium, boron, and all CCR rule Appendix IV pollutants. Montour will monitor surface water in the Chillisquaque Creek and Mud Creek, in accordance with the Sampling Plan, quarterly for one year. Within sixty (60) days after the last quarterly sampling event, Montour will send MSRKA the completed studies and all underlying data relied upon in the study.

The final sampling work plan was provided to MSRKA on January 26, 2022 and sampling was initiated on March 10, 2022. In order to determine whether the surface water surrounding the MSES within Chillisquaque Creek and Mud Creek present an acceptable risk, analytical results were screened against the toxic substances criteria outlined in Pennsylvania Code, Title 25, Chapter 93, the USEPA Region III BTAG Freshwater Screening Benchmarks using the referenced methodology, or other USEPA guidance.

3.0 SITE OVERVIEW

Montour owns and operates the MSES, which is located in Derry Township, Montour County, Pennsylvania. MSES currently operates two, active coal combustion residual (CCR) units around the facility: Basin 1 and Ash Area #3 Landfill (Ash Area #2 Landfill is inactive, not federally regulated and is being closed by removal for beneficial use). The CCR unit locations of are shown on Figure 1 – Surface Water Sampling Locations. Concern over potential impacts to surface water from Basin 1 and Area #3 CCR units was the impetus for MSRKA’s request for the surface water investigation. Therefore, the following sections provide descriptions of the CCR units, and their locations were considered in the development of the investigation sampling plan.

3.1 BASIN 1

Basin 1 is a 155-acre unlined, earthen dike disposal impoundment placed in service in 1972 (Figure 1). Basin 1 has been used for the disposal of plant-generated residual waste, including fly ash, bottom ash, and mill rejects. Currently, after bulk bottom ash is removed from sluicing waters, the remaining bottom ash fines settle out in the Basin. Additionally, after being collected dry in silos, fly ash is conditioned (wetted for dust control) and is beneficially used in the Basin as structural fill in preparation for basin closure.

During construction of the impoundment, soils were excavated within the Basin perimeter. The dike along the northwestern, southwestern, and southeastern side of the impoundment was constructed of excavated clay and weathered shale fragments. The dike in the northeastern portion of the impoundment is anchored into a shallow bedrock high present in this area.

A French drain collection system is located on the northwestern side of the Basin that collects seepage water and conveys it back to the Basin. The French drain consists of a buried interceptor trench at the downstream toe of the northwestern dike. The trench contains a reservoir pipe that is sloped to convey water to four manholes positioned along its length. The manholes are equipped with submersible pumps that operate via level controls to pump the accumulated water back into the Basin.

A 30-inch-thick clay slurry wall is installed along the northwestern, southwestern, and southeastern sides of Basin 1 to mitigate water seepage through the earthen dike. The slurry wall keys into the weathered shale to limit seepage through the dike. In addition, there is a grouted section of the weathered bedrock below the slurry wall on the south side of the Basin to further limit seepage through the dike.

In addition to the monitoring requirements set forth by the United States Environmental Protection Agency (USEPA) 40 C.F.R. 257, Subpart D, *Disposal of Coal Combustion Residuals from Electric Utilities* (CCR Rule), groundwater quality is also monitored at Basin 1 in accordance with Residual Waste Permit #301315 issued by the PADEP. Wells associated with the state permit are sampled quarterly. Findings are summarized in a Form 14R quarterly report submitted to the PADEP.

Montour has committed to complete closure of Basin 1 no later than October 17, 2028. To accomplish the closure, Montour plans to both cease operation of the coal-fired boilers and cease the use of Basin 1 for CCR and non-CCR wastestreams and initiate closure by December 31, 2025. These dates have been recorded in the Settlement Agreement Montour reached with the MSRKA in March 2021.

3.2 ASH AREA #3 LANDFILL

Ash Area #3 Landfill (Area 3), located southeast of the main generation station (Figure 1), is a residual waste landfill constructed and operated under Residual Waste Permit #300987 issued by the PADEP. The landfill is used for the disposal of plant-generated residual waste, including scrubber wastewater treatment plant sludge (a mixture of calcium sulfate solids and precipitated heavy metals), fly ash, mill rejects, and various plant sump sludges. The disposal area also receives resins, filter bags and construction and demolition wastes. The existing disposal area was constructed from September 1987 to March 1990.

The permitted Area 3 consists of Cells A through D. Only Cells A and B have been constructed to date. The cells are constructed with a geomembrane liner and leachate collection system. Leachate is drained through a piping network above the liner that directs the leachate into a leachate

collection basin located southeast of Area 3. The leachate collection basin is lined with a geomembrane liner and a 1-foot-thick soil liner with a permeability less than 1×10^{-7} cm/sec.

In addition to the monitoring requirements set forth by the federal CCR Rule, groundwater quality is monitored at Area 3 in accordance with the state residual waste permit. Monitoring points associated with the state permit include underdrains, monitoring wells, and surface water locations. Wells associated with the state permit are sampled quarterly. Results are summarized in a Form 14R quarterly report submitted to the PADEP.

3.3 GEOLOGIC SETTING

Numerous subsurface assessments, as well as a 2015 Basin-Wide Assessment (BWA) performed near Basin 1 and Area 3 indicate that naturally occurring, unconsolidated materials consist of Quaternary-aged alluvium, terrace deposits, till, and weathered bedrock. Unconsolidated materials in the northeastern portion of Basin 1 are underlain by the Mahantango Shale formation, whereas the remainder of the site, including Area 3, is underlain by the Marcellus Shale formation. Both shale formations are described as a thick-bedded, medium-dark-gray to black, very fissile mudstone. Because both formations are lithologically similar and the majority of the monitoring wells screened in bedrock are in the Marcellus formation, references to shale bedrock are denoted as Marcellus Shale to avoid confusion.

Borings advanced around Basin 1 and Area 3 indicate fractures are more prevalent in the shallow bedrock. Because the extent of fracturing is substantially different within the Marcellus Shale depending on depth, this unit has been separated into two hydrostratigraphic units (the Fractured Marcellus and the Competent Marcellus) to account for their different hydrologic properties. The Fractured Shale ranges in thickness from less than 1 foot to 10 feet and is the shallow aquifer for the site.

3.4 HYDROLOGIC SETTING

Topographically, the site lies within a regional basin with the highland ridges consisting of the more resistant rock formations of an anticline. The water-bearing zone directly below the site is unconfined. The overburden and the bedrock zones are hydraulically well connected. Groundwater monitoring wells in the area typically have screen intervals that intercept both the overburden material and the underlying bedrock. There is potential for an upward hydraulic gradient in the general area of the site. The water table is within 10 feet of the ground surface.

Surface water features surrounding the MSES are shown on Figure 1. East Branch Chillisquaque Creek (ECC) is located to the northeast of Basin 1. ECC flows towards the west, where it meets Middle Branch Chillisquaque Creek (MCC), just north of Basin 1, and together form Chillisquaque Creek (CC). CC continues to flow south, southwest where it enters into the West Branch of the Susquehanna River, approximately 15 miles southwest of MSES at Chillisquaque, PA.

There are several tributaries on the southeast side of MSES that flow by Area 3. These tributaries carry water south and west into Mud Creek, which ultimately flows into CC at Washingtonville, PA. In this area are tributaries 18790 and 18787 of Mud Creek. Tributary 18790 flows east where it meets Tributary 18787 approximately 2,400 feet downstream. Tributary 18787 then continues to flow south, southwest along the southern end of the property where it passes southeast of Area 2 and Area 3 landfills, approximately 1.6 miles downstream. At this point, Tributary 18787 is joined by Tributaries 18788 and 18789 and continues south. Very low to no flow may be observed during dry months in tributaries 18790, 18788, and 18789 and the northern most reach of Tributary 18787.

3.4.1 Conceptual Model – Basin 1

Prior to construction of the Basin, shallow groundwater likely flowed from the eastern upland areas, in a westward direction towards the lowland areas and to CC, which is located north and west of the Basin. Construction and filling activities within the Basin above the natural grade have produced groundwater levels within Basin 1 that are elevated above the original groundwater

elevations. Water levels within Basin 1 are influenced by the slurry wall and the French drain. Groundwater recharge within the Basin perimeter occurs from precipitation, infiltration from the open water in the sub-basins, and from groundwater flow from the northeast. Because the groundwater is elevated in the Basin above the original topography and original piezometric surface, groundwater flow direction is now radial away from the Basin. There is no significant horizontal hydraulic gradient within the impoundment; however, the gradient across the dike and slurry wall is steep due to their low hydraulic conductivities.

The BWA included the preparation and use of a groundwater flow model. That model suggested that some groundwater flow paths from the Basin discharge to the CC as diffuse groundwater flow. Travel time for these flow paths is about 10 years. Volumetric analysis performed as part of the groundwater flow model determined that the rate of groundwater that might be emanating from the Basin and discharging to the creek as diffuse flow north of the Basin was on the order of 31 gpm. This volume was considered negligible when considering the total amount of groundwater base flow discharging to the creek in this area, and the total amount of surface water flow already in the creek as it passes the Basin.

3.4.2 Conceptual Model – Area 3

A small tributary of Mud Creek separates constructed Cells A/B and Cells C/D. This southeastward-flowing tributary is directed into two 48-inch diameter pipes installed within Area 3. The flow enters piping on the northwestern side of Area 3 and exits the piping at the southeastern side of Area 3.

Groundwater underdrains were installed below the geomembrane liner to drain the groundwater during seasonal high levels and maintain the state requirement for an 8-foot separation between the liner and groundwater. The groundwater underdrains discharge southeast of Area 3. The general groundwater flow direction is to the south.

4.0 OVERVIEW OF FIELD INVESTIGATION ACTIVITIES

Surface water elevations were measured and surface water samples collected at select locations during four (4) quarterly sampling events, in accordance with the approved Sampling Plan. The laboratory analyzed the surface water samples for the selected parameters outlined below. The HawkMnt Field Services Sampling Plan (HawkMnt, 2018) and supplemental CEC Standard Operating Procedures (SOP) were used for reference while performing the various investigation activities.

4.1 SAMPLING LOCATIONS

Approximate surface water sampling locations are listed below and shown on Figure 1. Photographs of sampling locations are provided in Appendix A.

SURFACE WATER SAMPLE LOCATIONS

Location ID	Location Description	Latitude (in decimal degrees)	Longitude (in decimal degrees)
ECC-1	East Branch Chillisquaque Creek, 4,000 ft. northeast and upgradient of Basin 1	41.083777	-76.642589
MCC-1	Middle Branch of Chillisquaque Creek, 2,000 ft. north and upgradient of Basin 1	41.082629	-76.664884
CC-1	Chillisquaque Creek, 1,200 ft. northwest and downgradient of Basin 1, <i>previous location of BWA sample location SG-11</i>	41.080267	-76.669647
CC-2	Chillisquaque Creek, 300 ft. west and downgradient of Basin 1	41.075335	-76.670921
CC-3	Chillisquaque Creek, 330 ft. west and downgradient of MSES	41.069020	-76.674862
CC-4	Chillisquaque Creek, 2,040 ft. southwest and downgradient of MSES	41.065875	-76.679934
Trib 18790	Tributary 18790 of Mud Creek, 1,390 ft. east and downgradient of Basin 1, but upgradient of Area 3	41.076831	-76.648144
MP-3-5	Tributary 18788 of Mud Creek, 500 ft. west and downgradient of Area 3, <i>a part of existing monitoring associated with Area 3's PADEP Permit</i>	41.065197	-76.663785
Trib 18788	Tributary 18788 of Mud Creek, 400 ft. southeast and downgradient of Area 3	41.060264	-76.658542

Location ID	Location Description	Latitude (in decimal degrees)	Longitude (in decimal degrees)
Trib 18787 (1)	Tributary 18787 of Mud Creek, 4,200 ft. southeast of Basin 1 and upgradient of Area 3	41.067065	-76.643535
Trib 18787 (2)	Tributary 18787 of Mud Creek, 2,110 ft. east and downgradient of Area 3	41.061397	-76.650023
Trib 18787 (3)	Tributary 18787 of Mud Creek, 1,600 ft. south and downgradient of Area 3	41.057667	-76.656040

Notes:

- Chillisquaque Creek and Tributaries
- Mud Creek Tributaries

4.2 SAMPLING PARAMETERS

The surface water collection procedure is outlined in Section 3.5. Field parameters were collected at each location, during each sampling event, and documented on the appropriate data sheets. Procedures for field meter calibration, use, and care outlined in HawkMnt Sampling Plan were followed (HawkMnt, 2018).

Surface water samples were submitted to HawkMnt for analysis for the parameters listed below.

SAMPLE PARAMETERS

Field Parameters	
pH	Oxidation Reduction Potential (ORP)
Specific Conductance	Temperature
Dissolved oxygen (DO)	Turbidity
CCR Rule Appendix III Constituents for Detection Monitoring	
Boron (total/dissolved)	Calcium (total/dissolved)
Chloride	Fluoride*
pH	Sulfate
Total Dissolved Solids (TDS)	
CCR Rule Appendix IV Constituents for Assessment Monitoring	
Antimony (total/dissolved)	Arsenic (total/dissolved)
Barium (total/dissolved)	Beryllium (total/dissolved)
Cadmium (total/dissolved)	Chromium (total/dissolved)
Cobalt (total/dissolved)	Lead (total/dissolved)
Lithium (total/dissolved)	Mercury (total/dissolved)
Molybdenum (total/dissolved)	Selenium (total/dissolved)
Thallium (total/dissolved)	Radium 226 and 228 (combined)

Additional Parameters	
Strontium (total/dissolved)	Hardness
Total Suspended Solids (TSS)	Turbidity

Note:

* - Fluoride is also an Appendix IV parameter

4.3 SURVEYING AND STAFF GAUGE INSTALLATION

A Pennsylvania-Licensed Professional Land Surveyor installed staff gauges at each surface water location and surveyed the new surface water elevation points and staff gauges on site, to mark the sample locations and aid in surface water flow rate determination. The surveyor utilized onsite benchmark control points provided by Montour, and created additional control points as necessary. The horizontal coordinates were collected for each of the surface water sampling locations. Horizontal control was to the Pennsylvania State Plane coordinate system, NAD83. The vertical control was to the North American Vertical Datum 1988.

4.4 SURFACE WATER ELEVATION AND FLOW RATE MEASUREMENTS

Before the first quarterly sampling event, stream flow measurements were collected with a Marsh McBirney electric flow meter where applicable based on the size of the stream and the flow rate. Flow was measured using the USGS Midsection Method. Subsequent staff gage readings (all events) were compared to the elevation and flow rate during the initial measurement to estimate flow rate at the time of sample collection. The values presented are intended to be used in comparison to each other to understand the magnitude of flow between sampling events and are not an exact measurement. See Appendix B for more information.

Surface water elevations were collected from the top of the demarcated ruler on the staff gauge to the water surface during each sampling event, when possible. Some locations did not have enough flow for a staff gauge measurement to be effective and in this situation, a qualitative flow description was provided for stream flow estimation (dry, low flow, medium flow, or high flow).

4.5 SURFACE WATER SAMPLE COLLECTION

Sampling coincided with ongoing quarterly groundwater sampling at Montour for four consecutive quarters in 2022. Surface water samples were only to be collected from locations outlined in Section 3.1 that were actively flowing. No dry conditions were observed at any sampling location during the study; therefore, all intended samples were collected.

Surface water samples were collected working downstream to upstream. Samples were obtained by completely submerging an unpreserved, laboratory-supplied bottle into the surface water. For bottles with preservatives, an unpreserved laboratory-supplied bottle was used as a transfer bottle to avoid losing preservative or overfilling. Care was maintained during sample collection to prevent solids introduction into the sample matrix.

Surface water samples and field measurements were collected in accordance with the HawkMnt Sampling Plan (HawkMnt, 2018). Dissolved metals samples were field filtered using 0.45 um polyethersulfone (PES) filters prior to preservation. All relevant information related to sample collection was documented in the logbook or on data sheets, included with lab reports in Appendix C.

QA/QC samples (atmospheric field blanks, duplicates, and matrix spike/matrix spike duplicates) were collected at a frequency of 1 atmospheric field blank per day and 1 in 10 samples for duplicates and matrix spike/matrix spike duplicates.

4.6 SURFACE WATER SAMPLE HANDLING AND LABORATORY ANALYSIS

Samples were packed and labeled in accordance with HawkMnt Sampling Plan (HawkMnt, 2018). Samples were placed in iced coolers immediately upon collection and shipped via FedEx for overnight delivery or delivered directly under standard chain of custody protocol (HawkMnt, 2018) to a certified laboratory for the analytical parameters identified in Section 3.2. A total of 16 surface water samples (including 4 QA/QC samples) were submitted per quarter. Standard Level II data packages were prepared to document the surface water sample analyses.

The laboratory analysis was performed with the following methods sensitive enough so that detection limits are less than the screening criteria. The table below summarizes the water analytical methods and their associated detection limits.

ANALYTICAL METHODS AND DETECTION LIMITS

Parameter	Detection Limit	Analytical Method	Parameter	Detection Limit	Analytical Method
Metals (ug/L)			Other Parameters		
Antimony	0.179	EPA 200.8	Chloride (mg/L)	0.164	EPA 300.0
Arsenic	0.548	EPA 200.8	Fluoride (mg/L)	0.0281	EPA 300.0
Barium	0.222	EPA 200.8	pH (S.U.)	NA	SM 4500-H+B
Beryllium	0.0706	EPA 200.8	Radium 226 and 228 (combined, in PCi/L)	Varies*	EPA 903.1/904.0
Boron	48.3	EPA 200.7	Sulfate (mg/L)	0.252	EPA 300.0
Cadmium	0.133	EPA 200.8	Total Dissolved Solids (TDS, (mg/L)	1	SM 2540 C
Calcium	38.4	EPA 200.7	Total Suspended Solids (TSS, mg/L)	2	SM 2540 D
Chromium	0.411	EPA 200.8	Turbidity (NTU)	--	SM 2130 B
Cobalt	0.127	EPA 200.8			
Lead	0.229	EPA 200.8			
Lithium	0.789	EPA 200.8			
Mercury	0.012	EPA 245.7			
Molybdenum	0.3	EPA 200.8			
Selenium	0.632	EPA 200.8			
Strontium	5.25	EPA 200.7			
Thallium	0.216	EPA 200.8			

* The minimum detectable concentration (MDC) is calculated for each analysis and varies based on the reported uncertainty, background, and instrumental parameters.

5.0 RESULTS

5.1 STAFF GAUGE READINGS AND STREAM FLOW ESTIMATES

Stream flow estimates were calculated using the method described in Section 3.4 and displayed in the table below. Baseline flow measurements and subsequent flow estimation calculations are provided in Appendix B. The values presented are intended to be used to understand the magnitude of flow between sampling events and are considered an estimated measurement.

STREAM FLOW ESTIMATES

Sample Location	Stream Flow Estimates (in gallons per minute)			
	March 2022	June 2022	September 2022	December 2022
ECC-1	8,300	3,800	5,300	7,600
MCC-1	1,300	700	1,200	2,000
CC-1	7,100	4,700	6,000	6,800
CC-2	5,400	3,600	4,500	5,800
CC-3	9,400	<2,500*	<3,000*	<3,000*
CC-4	25,700	<3,200*	5,500	11,500
Trib 18790	10	<5	<5	10
MP-3-5	100	100	100	200
Trib 18788	200	100	100	200
Trib 18787 (1)	700	100	100	500
Trib 18787 (2)	1,500	100*	150*	1,200
Trib 18787 (3)	2,100	900	700	1,400

Notes:

■ – Chillisquaque Creek and Tributaries

■ – Mud Creek Tributaries

*The stream channel water level was below the stream gauge during some sampling events. Flow was estimated for these events.

5.1.1 Chillisquaque Creek

Stream flow estimates were highest in March and December, and lowest in June and September, for all locations. This general flow trend matches 2022 stream flow measurements collected at

USGS Stream Station 01553700 on CC in Washingtonville, PA (location on Figure 1, trends on Figure 2). The USGS stream gauge is located about 0.3 miles downstream from CC-4, downgradient from the confluence with West Branch Chillisquaque Creek and upgradient from the confluence with Mud Creek. The stream channels at CC locations (including ECC-1 and MCC-1) are flat-bottomed, minimally incised, and surrounded by forest on both banks. Although stream stage was below the installed staff gauge during the summer and fall months, none of the locations along CC were observed to be dry during the sampling period.

5.1.2 Mud Creek Tributaries

Like CC, stream flow estimates were highest in the Mud Creek tributaries in March and December, and lowest in June and September for most locations. The geomorphology in and around these channels is more varied than along CC. Most Mud Creek tributary channels are incise flat fields with few trees along the banks, or are flat, nearly-stagnant channels with reed growth. Tributary 18787 is the primary Mud Creek Tributary in the southern portion of the study area. It flows from northeast to southwest, along the southern end of both Ash Area 2 and Area 3 and is the receiving stream of both Tributary 18788 and Tributary 18790. Stream flow trends along Tributary 18787 generally align with flow rates observed along CC (in this study and at the USGS stream station described above). Observed flow at Tributaries 18790 and 18788 changed minimally throughout the year compared to Tributary 18787 and are a smaller order stream than Tributary 18787. Tributary 18788 had two sample locations in this study: MP-3-5 and Trib 18788. MP-3-5 serves as a routine quarterly monitoring point for MSES under their Area 3 Residual Waste Permit. It is located in a flat, very soft stream bed with dense vegetation, and receives runoff water from the Strawberry Ridge Road area. Stream monitoring location Trib 18788 is located downgradient of MP-3-5. Surface water flows from MP-3-3 through an enclosed 48-inch conduit, along the western side of Area 3, before it reaches sample location Trib 18788. MP-3-5 and Trib 18788 have similar stream flow estimates, which fluctuate minimally during the year.

5.2 SURFACE WATER ANALYTICAL RESULTS

5.2.1 Analytical Data Quality Discussion

Surface water analytical data are summarized on Table 1. Laboratory analytical reports are presented in Appendix C. Analytical results for the 2022 quality assurance samples were reviewed to assess precision, accuracy, and representativeness, including field and laboratory QA/QC samples.

Field QA/QC Samples: Field duplicates and field blanks were collected to evaluate the precision of sample collection and laboratory analysis procedures, and the comparability of analytical data. Field duplicates were collected by filling a second set of sample containers during the collection of the original sample for each class of constituents. The field duplicates were analyzed for the same constituents as the samples. The Work Plan required one field duplicate for every 10 field sample locations. Two field duplicates were collected with each sampling event per the work plan. One field blank was collected during each sampling event and consisted of a complete set of sample containers filled in the field with laboratory-grade deionized water and analyzed for the same constituents as the samples. A total of 15 samples were collected each quarter, 12 surface water monitoring locations, two field duplicates, and one field blank. A list of field duplicates and field blanks is provided below.

QUALITY ASSURANCE SAMPLE SUMMARY

Quarter	Sample ID	Purpose
First	ECC-1	Field Duplicate
	MP-3-5	Field Duplicate
	SW FB	Field Blank
Second	MCC-1	Field Duplicate
	Trib 18788	Field Duplicate
	SW FB	Field Blank
Third	CC-1	Field Duplicate
	Trib 18790	Field Duplicate
	SW FB	Field Blank
Fourth	CC-4	Field Duplicate
	ECC-1	Field Duplicate
	SW FB	Field Blank

Field duplicates are indicators of overall precision. These analyses measure both field and laboratory precision and, therefore, have more variability than laboratory duplicates. Precision was evaluated based on calculating the Relative Percent Difference (RPD) between analytical results of samples and their duplicate. The USEPA *National Functional Guidelines for Inorganic Superfund Methods Data Review* (2020) has no review criteria for field duplicates, but recommends calculating relative percent difference (RPD). For laboratory duplicates, the USEPA guideline is that the RPD must be within a control limit of $\pm 20\%$. RPDs for field duplicates are expected to be higher than laboratory duplicates. A 20% RPD benchmark was used to evaluate the field duplicates collected in this study. RPD is determined by calculating the percent difference between parameters detected above the laboratory reporting limit (RL) in both the sample and the duplicate. The RPDs were acceptable in that the majority of RPDs observed in this investigation ranged between 0-12%, with a few, isolated values above 20%. Turbidity had the most occurrences of an RPD above 20% (1Q, 3Q, and 4Q) while the following parameters had an RPD above 20% once: total iron (3Q), total lithium (4Q), total molybdenum (3Q), total strontium (2Q), TDS (1Q), and TSS (1Q). None of these elevated occurrences correlated with other elevated metals in the same sample and duplicate pair. Based on the majority of field duplicate samples meeting the RPD benchmark and only isolated incidents of elevated RPDs, this dataset is considered complete, and no samples were rejected.

One field blank was collected during each sampling event to assess sampling accuracy for a total of four field blanks during the investigation. No metals were quantified in any of the four field blanks: during this investigation, dissolved barium, calcium, molybdenum and thallium, and total calcium and molybdenum, were detected above the detection limit but below the quantification limit (noted by a J qualifier on Table 1). Similarly, alkalinity and total hardness were detected above the detection limit but below the quantification limit in some quarters. Chloride was detected in the June 2022 field blank at 1.1 mg/L. Concentrations of chloride detected in surface water samples in this investigation range from 6.41-73.1 mg/L. Considering the detections in the field blanks were either unquantifiable (J values) or less than concentrations observed in surface water samples and duplicates (June 2022 chloride) collected during the investigation, this dataset is considered complete, and no samples were rejected.

Laboratory QA/QC Samples: All laboratory analyses were performed in accordance with PADEP Chapter 252 Regulations. Laboratory QC requirements include review of analysis holding times, instrument calibration and calibration verification during analysis, method preparation blanks, laboratory control samples, instrument performance checks, laboratory blanks and matrix blank samples. Summaries of QA/QC results were not included in the laboratory report, however the laboratory report does provide for flagging of results associated with non-compliant QA/QC results. The laboratory did not qualify any results as being outside of laboratory calibration ranges, therefore the analytical results are considered valid.

5.2.2 Analytical Screening Criteria

Analytical data was screened against the Pennsylvania Code, Title 25, Chapter 93 Water Quality Criteria (WQC) for Toxic Substances (PADEP, 2018), the USEPA Region III BTAG Freshwater Screening Benchmarks, or other USA guidance presented in Section 3.6 of this report, employing the methodology detailed in, *Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota (Suter and Tsao, 1996) referenced in the BTAG Benchmarks Tables*. As detailed in this methodology, exceedances of the screening criteria or benchmarks in the following section do not automatically indicate an unacceptable risk. Exceedances suggests potential constituents of concern that may warrant further assessment to determine whether or not the surface water presents an acceptable risk. Further assessment includes consideration of the number of screening criteria exceeded and the conservatism of the particular benchmarks as described by Suter and Tsao (1996).

The Pennsylvania Code, Title 25, Chapter 93 Water Quality Criteria (WQC) for Toxic Substances (PADEP, 2018), the USEPA Region III BTAG Freshwater Screening Benchmarks, or other USEPA guidance are presented below.

ANALYTICAL COMPARISON CRITERIA

Parameter	Fish & Aquatic Life		Human Health Criteria ³	Specific Water Quality Criteria ⁴
	Continuous Concentration (Chronic) ¹	Maximum Concentration (Acute) ²		
Metals (ug/L)				
Antimony	220	1,100	5.6 [^]	<i>nse</i>
Arsenic	150	340	10	<i>nse</i>
Barium	4,100	21,000	2,400	<i>nse</i>
Beryllium	0.66 ^{8,11}	35 ¹¹	<i>nse</i>	<i>nse</i>
Boron	1,600	8,100	3,100	<i>nse</i>
Cadmium	0.25 ⁵	2 ⁵	<i>nse</i>	<i>nse</i>
Calcium	<i>nse</i>	<i>nse</i>	<i>nse</i>	116,000 ^{8,9}
Chromium	74 ^{5,6}	570 ^{5,6}	<i>nse</i>	<i>nse</i>
Cobalt	19	95	<i>nse</i>	<i>nse</i>
Lead	2.5 ⁵	65 ⁵	<i>nse</i>	<i>nse</i>
Lithium	14 ^{8,11}	260 ^{8,11}	<i>nse</i>	<i>nse</i>
Mercury	0.77 ⁵	1.4 ⁵	0.05	<i>nse</i>
Molybdenum	73 ⁸	16,000 ¹¹	<i>nse</i>	<i>nse</i>
Selenium	4.6 ⁵	<i>nse</i>	<i>nse</i>	<i>nse</i>
Strontium	<i>nse</i>	<i>nse</i>	4,000	<i>nse</i>
Thallium	13	65	0.24 [^]	<i>nse</i>
Other Parameters				
Chloride (mg/L)	<i>nse</i>	<i>nse</i>	<i>nse</i>	250 ⁷
Fluoride (mg/L)	<i>nse</i>	<i>nse</i>	<i>nse</i>	2.0 (daily average) ⁷
pH (S.U.)	<i>nse</i>	<i>nse</i>	<i>nse</i>	6-9
Radium 226 and 228 (combined, in PCi/L)	<i>nse</i>	<i>nse</i>	<i>nse</i>	5 ¹⁰
Sulfate (mg/L)	<i>nse</i>	<i>nse</i>	<i>nse</i>	250 (max) ⁷
Total Dissolved Solids (TDS, (mg/L)	<i>nse</i>	<i>nse</i>	<i>nse</i>	750 (max) ⁷
Total Suspended	<i>nse</i>	<i>nse</i>	<i>nse</i>	<i>nse</i>

Parameter	Fish & Aquatic Life		Human Health Criteria ³	Specific Water Quality Criteria ⁴
	Continuous Concentration (Chronic) ¹	Maximum Concentration (Acute) ²		
Solids (TSS , mg/L)				
Turbidity (NTU)	<i>nse</i>	<i>nse</i>	<i>nse</i>	<i>nse</i>

Notes:

1. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Continuous Concentrations (CCC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020 (PADEP, 2020).
 2. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Maximum Concentration (CMC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020 (PADEP, 2020).
 3. Pennsylvania Code, Title 25, Chapter 93 Table 5: Human Health Criteria (HHC) Surface Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020 (PADEP, 2020). Based on ingestion from drinking water, fish consumption and other modes of exposure.
 4. Specific water quality criteria applicable to all waters of the state unless exceptions are specified. Standards from Table 3 of Pennsylvania Code, Title 25, Chapter 93 (PADEP, 2020).
 5. Indicates dissolved metal criterion; others are total recoverable metals. Each listed dissolved criterion in Table 5 is equal to the corresponding total recoverable criterion before rounding (from the EPA National Ambient Water Quality Criteria Documents) multiplied by the conversion factor (from the Conversion Factors Table). A criterion that is expressed as a hardness (H)-based equation is shown in Table 5 as the conversion factor (listed) multiplied by the hardness criterion equation. Values vary from what was presented in the Work Plan. A range of values is provided based on the observed hardness at time of sampling. Standards varied between events and locations depending on hardness; see Table 1 for details.
 6. Based on Chromium III criteria.
 7. Only applicable at planned or existing public water supply intakes and not applicable for this site. Standard presented for the limited purpose of evaluating water conditions at MSES.
 8. USEPA Region 3 Tier II screening value (BTAG).
 9. Lowest Chronic Value for All Organisms, conventional benchmark for priority contaminants in fresh water (Suter and Tsao, 1996).
 10. Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water (USEPA, 2009). Since this work plan applies to surface water that is not intended for drinking, it is intended as an evaluation benchmark.
 11. Conventional benchmark for priority contaminants in fresh water from Suter and Tsao, 1996; used for chronic Tier II metals benchmarks not established in BTAG.
- ^ Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.
- nse* – No Standard Established

5.2.3 Chillisquaque Creek

No criteria exceedances were observed in any of the four quarterly samples collected at any of the sampling locations in CC, with the exception of two radium samples at two locations. The two exceedances observed along CC during this study were for total radium at CC-1 (6.08 +/- 5.72 pCi/L), and CC-2 (12.7 +/- 6.86 pCi/L) both collected in March 2022. Total radium levels in the remaining quarterly samples at both of these locations were well below the criteria. The Maximum

Contaminant Level (MCL) of 5.0 pCi/L for total radium is a National Primary Drinking Water regulation established by the USEPA. This standard is the highest concentration that is allowed in drinking water. There is no surface water standard for combined radium.

5.2.4 Mud Creek Tributaries

No criteria exceedances were observed in any of the four quarterly samples collected at sample locations Trib 18787(1), Trib 18787(2), or Trib 18790. Observed exceedances are limited to three locations: MP 3-5 (within Tributary 18788), Trib 18788, and Trib 18787(3) (downstream of confluence of 18788). Below is a summary table for criteria exceedances observed in tributaries of Mud Creek included in the study.

OBSERVED SCREENING CRITERIA EXCEEDANCES IN MUD CREEK TRIBUTARIES

Location	Exceedances by Quarter (X = exceedance of a criteria)											
	MP-3-5*				Trib 18788				Trib 18787(3)			
Parameter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Total Calcium ¹	X	X	X	X	X	X	X	X		X	X	X
Total Lithium ¹		X	X	X	X	X	X	X		X	X	X
Sulfate ^{2,3}	X	X	X	X	X	X	X	X		X	X	X
TDS ^{2,3}	X	X	X	X	X	X	X	X		X	X	

Notes:

1 – USEPA BTAG or Suter and Tsao (1996) Benchmark

2 – PADEP Chapter 93 Criteria

3 – Specific for Public Water Supply Intakes

* – Exceedance for cobalt criteria² was observed in duplicate sample for 1Q22 at MP-3-5

Calcium, sulfate, and TDS, concentrations were highest upstream (MP-3-5), lower at Trib 18788, and lowest downstream (Trib 18787(3)) (Figure 3). In contrast, lithium concentrations at Trib 18788 was the highest of the three locations in the first, third and fourth quarters, and highest in Trib 18787(3) in the second quarter. Note that although the total lithium chronic comparison criteria was exceeded (0.014 mg/L), no location exceeded the acute value (0.260 mg/L). See Figure 3 for a graphical representation of the sample concentrations.

6.0 DISCUSSION

This section reviews the screening results presented in this report and identifies potential constituents of concerns. Neither a formal Human Health Risk Assessment nor Ecological Risk Assessment were performed as a part of this study.

6.1 CHILLISQUAQUE CREEK

The only screening criteria that had an exceedance within Chillisquaque Creek or its branches (Middle Branch and East Branch) was combined radium (5 pCi/L). This exceedance occurred once, in the first quarter 2022 at sample locations CC-1 and CC-2.

The combined radium standard is based on the USEPA MCL for public drinking water. Since this water is not being used for public consumption and the exceedance was not observed in any other locations or during subsequent sampling events, combined radium is not considered a constituent of concern for surface water in Chillisquaque Creek.

6.2 MUD CREEK TRIBUTARIES

The following constituents were the only values that exceeded the comparison criteria within the tributaries of Mud Creek: total calcium, total lithium, sulfate, and TDS. The comparison criteria for these four constituents fell into two categories. Calcium and lithium criteria were obtained from the USEPA Region 3 Tier II screening values (BTAG, 2006). Sulfate and TDS criteria were obtained from the Pennsylvania Chapter 93 water quality standards and are only applicable at planned or existing public water supply intakes. Public water standards are not applicable for this investigation because there are no surface water intakes along CC or the Mud Creek tributaries. These standards were presented for the limited purpose of evaluating water conditions at MSES.

Spatially, the total calcium, total lithium, sulfate, and TDS exceedances were limited to two locations within Tributary 18788 and one location within the receiving Tributary 18787, downgradient of its confluence with Tributary 18788. These tributaries are both west of Area 3

and south of MSES. All other sampling locations were upgradient of the Tributary 18787 and Tributary 18788 confluence. No exceedances were observed at these upgradient locations.

Total calcium and total lithium standards (116 mg/L and 0.014 mg/L, respectively) were obtained from the USEPA BTAG table and were originally discussed by Suter and Tsao (1996). The calcium criterion was derived based on the lowest chronic value for only daphnids, versus daphids, fish and aquatic plants, and therefore represents a very conservative value. Similarly the lithium criterion is also a conservative Tier II Secondary Chronic Value. Note that the Secondary Acute Value for lithium (0.260 mg/L) was not exceeded at any location. As stated in the BTAG guidance, selection of compounds that exceed these standards as constituents of concern should be based on the number of benchmarks exceeded and the conservatism of the particular benchmark values. Based on the fact that only two constituents exceeded already conservative screening values, these constituents are not selected as constituents of concern.

Because the standards for sulfate (maximum concentration of 250 mg/L) and TDS (maximum concentration 750 mg/L) are intended for the protection of public water supplies, and there are no surface water intakes in the investigation area, these constituents were not selected as constituents of concern. Additionally, both constituents decrease in concentration in the downstream direction.

7.0 CONCLUSION

This year-long study focused on six locations within the Chillisquaque Creek stream network and six locations within the Mud Creek stream network to capture an entire year of surface water flow and analytical data. Analytical parameters were selected by MSRKA and Montour, based primarily on the USEPA's CCR Rule, plus other parameters requested by MSRKA. Analytical data was evaluated for quality assurance completeness and then screened against various water quality criteria and benchmarks compiled specifically for this study due to the lack of published Pennsylvania surface water quality standards for some of the constituents evaluated. Screening against benchmarks in accordance with the corresponding EPA guidance determined that none of the detected compounds represent a constituent of concern warranting further evaluation.

Based on the findings of this investigation, the following conclusions are presented:

- Based on the four quarters of surface water analytical data at the six sampling locations along Chillisquaque Creek, water quality is determined to present an acceptable risk.
- Based on the four quarters of surface water analytical data at the six sampling locations along the tributaries of Mud Creek, surface water quality is determined to present an acceptable risk.

8.0 REFERENCES

HawkMnt Labs, Inc., 2018. Field Services Sampling Plan Rev. 000. 49pp. Dated October 5, 2018.

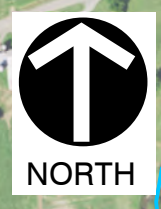
PADEP, 2020. Pennsylvania Department of Environmental Protection, Title 25 – Environmental Protection, Chapter 93, Water Quality Standards. Updated July 11, 2020.

Suter II, G. W. and Tsao, C. L., 1996. Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision. Lockheed Martin Energy Systems, Inc. for the United States Department of Energy. June 26, 1996.

USEPA, 2006. Ecological benchmarks from EPA Region III BTAG tables: EPA Region III BTAG Freshwater Screening Benchmarks (July, 2006), available at <https://www.epa.gov/risk/freshwater-screening-benchmarks>.

USEPA, 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review, available at <https://www.epa.gov/clp/superfund-clp-national-functional-guidelines-data-review>.

FIGURES



REVISION RECORD		
NO	DATE	DESCRIPTION

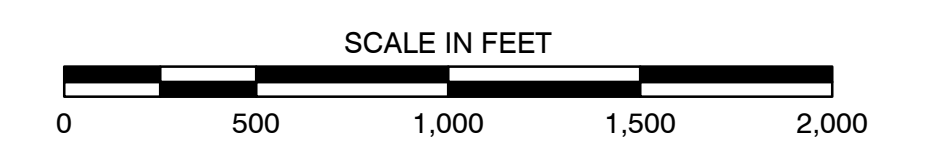
SUBMITTAL RECORD		
NO	DATE	DESCRIPTION

LEGEND

- USGS STREAM MONITORING LOCATION
- SURFACE WATER SAMPLING
- ASH AREA 3 PADEP QUARTERLY MONITORING POINT
- SLURRY WALL
- DOUBLE 48" DIAMETER CULVERT
- PADEP 305B STREAM
- PRIVATE PROPERTY
- MONTOUR PROPERTY
- TALEN PROPERTY
- LIMITS OF BASIN 1
- LIMITS OF ASH AREA 2
- LIMITS OF ASH AREA 3

REFERENCE

NAIP AERIAL IMAGERY FOR PENNSYLVANIA, 2019.



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MONTOUR, LLC
 SURFACE WATER SAMPLING FINAL REPORT
 MONTOUR STEAM ELECTRIC STATION
 WASHINGTONVILLE, PENNSYLVANIA

DRAWN BY:	JCH/JLR	CHECKED BY:	DRAFT	APPROVED BY:	*Hand signature on the DRAFT
DATE:	3/23/2023	SCALE:	1" = 500'	PROJECT NO.:	132-065.1302

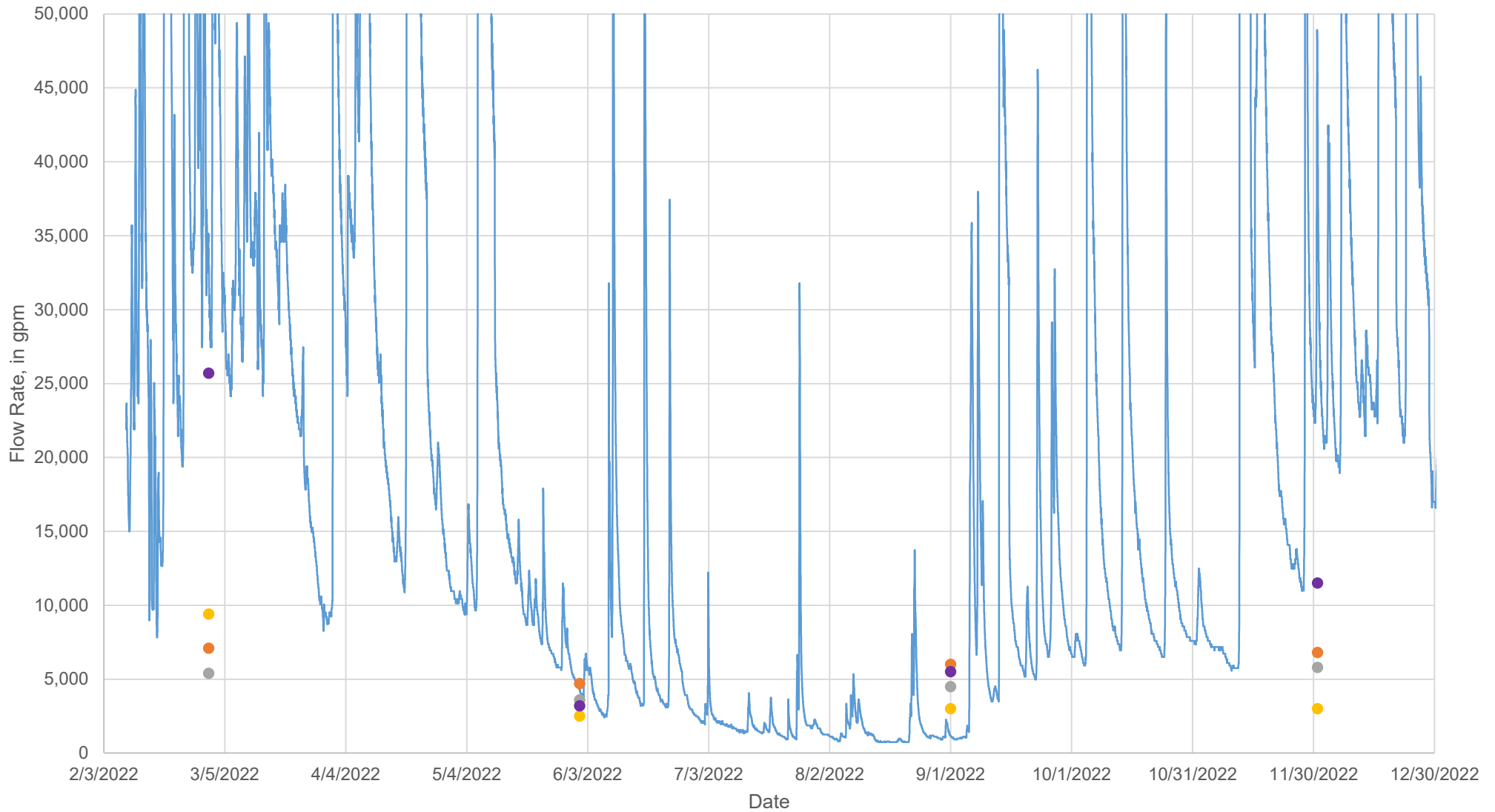
SURFACE WATER SAMPLING LOCATIONS

FIGURE NO. **1**



P:\2013132-065-CEC\MapTask_1302132065_TR1302_FIG1_SURFACE_WATER_SAMPLING_FINAL_REPORT.mxd 3/23/2023 9:21 AM (jch)

USGS 01553700 and Chillisquaque Creek on Talen Property Flow Rate Comparison



— USGS 01553700 ● CC-1 ● CC-2 ● CC-3 ● CC-4

*HAND SIGNATURE ON FILE



Civil & Environmental Consultants, Inc.

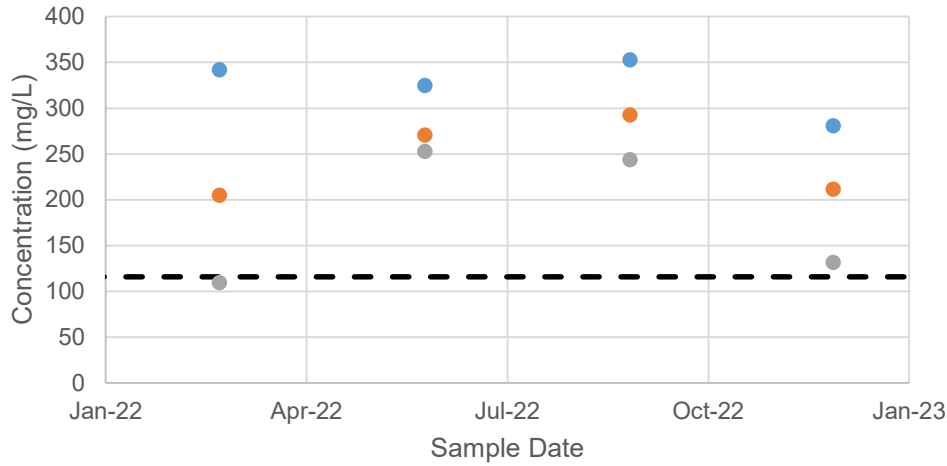
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SURFACE WATER SAMPLING REPORT
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WASHINGTONVILLE, PA

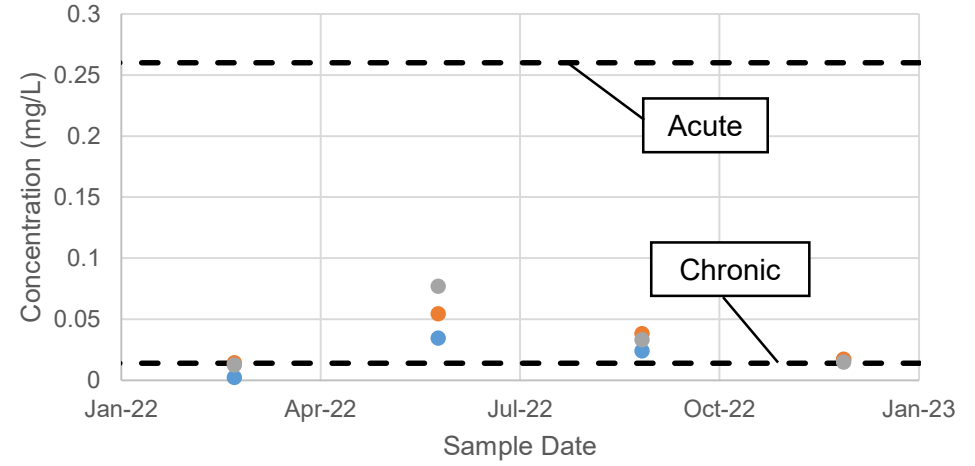
GRAPHICAL COMPARISON OF FLOW RATES MEASURED BY USGS
AND TALEN ON CHILLISQUAQUE CREEK THROUGH TIME

DRAWN BY:	BEK	CHECKED BY:	BJH	APPROVED BY:	HTW*	FIGURE NO.:	2
DATE:	MARCH 2023	DWG SCALE:	N.T.S.	PROJECT NO:	132-065		

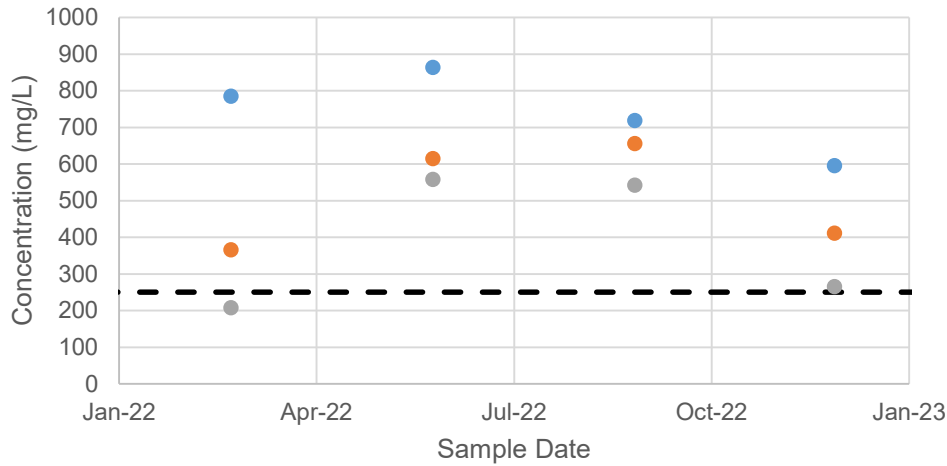
Calcium, Total



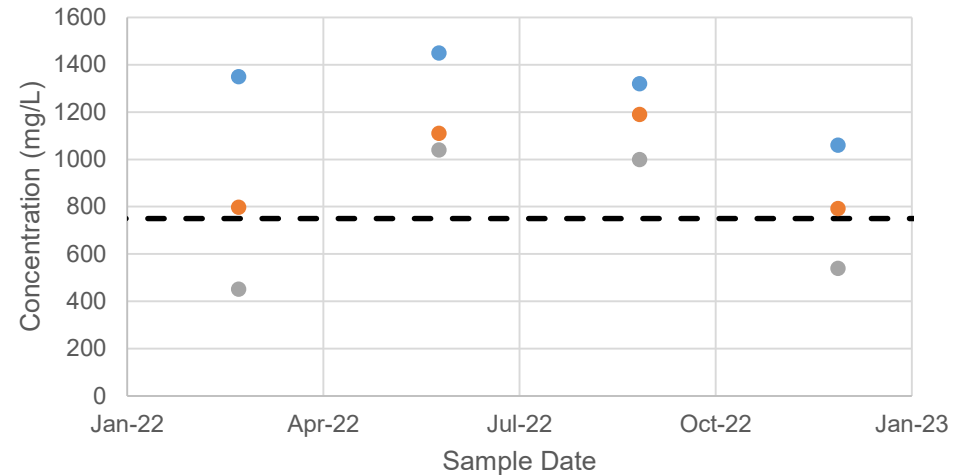
Lithium, Total



Sulfate



Total Dissolved Solids



● MP-3-5 ● Trib 18788 ● Trib 18787 (3) - - Comparison Criteria

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MONTOUR, LLC
SURFACE WATER SAMPLING REPORT
MONTOUR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA

GRAPHICAL REPRESENTATION OF COMPARISON CRITERIA
EXCEEDANCES IN MUD CREEK TRIBUTARIES THROUGH TIME

DRAWN BY:	BEK	CHECKED BY:	BJH	APPROVED BY:	HTW*	FIGURE NO.:
DATE:	MARCH 2023	DWG SCALE:	N.T.S.	PROJECT NO:	132-065	3

TABLE

TABLE 1 (PAGE 1 OF 7)
SURFACE WATER SUMMARY
MONTOR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOR, LLC
CEC PROJECT 132-065

Sample I.D.:	Date Collected:	CC-1					CC-2			
		3/10/2022	6/14/2022	9/23/2022	9/23/2022 *	12/20/2022	3/10/2022	6/14/2022	9/23/2022	12/20/2022
Parameter	Units									
Dissolved Metals										
Antimony, Dissolved	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Dissolved	mg/L	< 0.00055	< 0.00055	0.00062 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00058 J	< 0.00055
Barium, Dissolved	mg/L	0.0226	0.0251	0.027	0.0264	0.0206	0.0236	0.0263	0.0281	0.0206
Beryllium, Dissolved	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Dissolved	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483
Cadmium, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Dissolved	mg/L	19.4	20.7	26.8	26.2	18	19.4	20.6	27.6	18
Chromium, Dissolved	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041
Cobalt, Dissolved	mg/L	< 0.00013	0.00015 J	0.00013 J	< 0.00013	< 0.00013	< 0.00013	0.00016 J	0.00014 J	0.00013 J
Lead, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Lithium, Dissolved	mg/L	< 0.00079	0.00141	0.00153	0.00147	0.00089 J	< 0.00079	0.00136	0.00154	< 0.00079
Molybdenum, Dissolved	mg/L	< 0.0003	0.00071 J	0.00083 J	0.00068 J	0.0003 J	< 0.0003	0.00058 J	0.00066 J	< 0.0003
Selenium, Dissolved	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Dissolved	mg/L	0.066	0.08	0.093	0.092	0.068	0.068	0.077	0.096	0.064
Thallium, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Total Metals										
Antimony, Total	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Total	mg/L	< 0.00055	< 0.00055	0.00057 J	0.00061 J	< 0.00055	< 0.00055	< 0.00055	0.00055 J	< 0.00055
Barium, Total	mg/L	0.0237	0.0285	0.034	0.0319	0.024	0.025	0.0291	0.0322	0.0238
Beryllium, Total	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Total	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483
Cadmium, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Total	mg/L	18.7	18.3	27.0	26.2	18.3	19.6	19.2	25.9	18.1
Chromium, Total	mg/L	< 0.00041	< 0.00041	0.00078 J	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041
Cobalt, Total	mg/L	0.00016 J	0.00022 J	0.00025 J	0.0002 J	0.00018 J	0.00024 J	0.00022 J	0.00025 J	0.00025 J
Lead, Total	mg/L	< 0.00023	0.00032 J	< 0.00023	< 0.00023	< 0.00023	0.00024 J	< 0.00023	0.00117	< 0.00023
Lithium, Total	mg/L	0.00107	0.00141	0.00284	0.00264	0.00097 J	0.00116	0.00139	0.00239	0.00083 J
Mercury, Total	mg/L	< 0.00003	< 0.00003	< 0.0000327	< 0.0000327	< 0.0000327	< 0.00003	< 0.0000327	< 0.0000327	< 0.0000327
Molybdenum, Total	mg/L	< 0.0003	< 0.0003	0.00317	0.00215	< 0.0003	< 0.0003	< 0.0003	0.00208	< 0.0003
Selenium, Total	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Total	mg/L	0.064	0.076	0.104	0.1	0.065	0.067	0.077	0.09	0.067
Thallium, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.00028 J	< 0.00023	0.00028 J	< 0.00023
Non-Metals										
Alkalinity as CaCO3	mg/L	37.4	50	60.6	59.6	37.4	37.6	49.6	60.8	37.6
Chloride	mg/L	15	9.14	11	11.1	7.7	15.5	9.25	10.9	7.72
Fluoride	mg/L	0.09 J	0.07 J	0.2	0.22	0.17 J	0.09 J	0.09 J	0.2	0.17 J
Total Hardness as CaCO3	mg/L	62.8	62	92.7	90.1	62.2	65.9	64	89	61.8
pH	S.U.	7.34 H1	7.2 H1	6.92 H1	7 H1	7.15 H1	7.33 H1	7.27 H1	7.1 H1	7.19 H1
Sulfate	mg/L	17.7	18.9	28.1	28.1	19.8	17.7	18.9	28	20.4
Total Dissolved Solids	mg/L	115	118	122	123	83	111	114	117	84
Total Suspended Solids	mg/L	4.6 J	8.4	8.5	8	7	3.5 J	9.4	8.2	8
Turbidity	NTU	12	9.8	14	11	7.8	15	9.8	13	8
Combined Radium	pCi/L	6.08 +/- 5.72	0.736 +/- 0.743	1.34 +/- 1.02	1.94 +/- 1.25	0.279 +/- 0.659	12.7 +/- 6.86	0.6 +/- 0.683	1.45 +/- 1.16	0.905 +/- 0.797
Field Parameters										
Conductivity	µS/cm	186.7	192.2	234.5	234.5	162.2	190	187.1	234.6	164.1
Dissolved Oxygen	mg/L	13.31 N	7.4 N	9.11 N	9.11 N	13.59 N	13.29 N	7.1 N	9.08 N	13.66 N
Oxidation-Reduction Potential	mV	165.5 N	308.1 N	157.7 N	157.7 N	284 N	215 N	316.4 N	159.9 N	756.2 N
pH (SM4500B)	S.U.	6.66	7.51	7.42	7.42	6.89	6.76	7.41	7.4	6.87
Temperature	°C	2.9	20	15	15	2.1	3.5	20	15.2	2.2
Water Turbidity	NTU	12.06	16.33	16.73	16.73	6.67	12.98	11.14	13.1	7.96
Staff Gauge Reading	Feet	1.68	1.02	1.36	1.36	1.4	0.8	1.12	1.12	1.56
Staff Gauge Reading Elevation		516.316	515.656	515.996	515.996	516.236	513.984	513.384	513.704	514.144
Estimated Flow Rate	gpm	7,100	4,700	6,000	6,000	6,800	5,400	3,600	4,500	5,800

Notes:

Bolded values were detected at concentrations above laboratory reporting limits.

-- Denotes parameter not run and/or sample not collected.

* Denotes duplicate sample

H1 Holding time for preparation or analysis exceeded. The hold time for pH is 15 minutes. Field pH is collected immediately at the time of sample collection.

J Analyte detected below reporting limits; value is an estimate.

N Analyte not certified in NELAC Scope of Accreditation.

^ Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.

+ The stream channel was located below the stream gauge during some sampling events. Flow was estimated for these events based on the distance from the stream gauge to the surface of the stream, and the minimum flow calculated if the baseline stream stage was 0.0.

1. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Continuous Concentrations (CCC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

2. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Maximum Concentration (CMC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

3. Pennsylvania Code, Title 25, Chapter 93 Table 5: Human Health Criteria (HHC) Surface Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

Based on ingestion from drinking water, fish consumption and other modes of exposure.

4. Specific water quality criteria applicable to all waters of the state unless exceptions are specified. Standards from Table 3 of Pennsylvania Code, Title 25, Chapter 93.

5. Indicates dissolved metal criterion; others are total recoverable metals. Each listed dissolved criterion in Table 5 is equal to the corresponding total recoverable criterion before rounding (from the EPA National Ambient Water Quality Criteria Documents) multiplied by the conversion factor (from the Conversion Factors Table). A criterion that is expressed as a hardness (H)-based equation is shown in Table 5 as the conversion factor (listed) multiplied by the hardness criterion equation. Values vary from what was presented in the Work Plan. A range of values is provided based on the observed hardness at time of sampling. Standards varied between events and locations depending on hardness.

6. Based on Chromium III criteria.

7. Only applicable at planned or existing public water supply intakes and not applicable for this site. Standard presented for the limited purpose of evaluating water conditions at MSES.

8. USEPA Region 3 Tier II screening value (BTAG).

9. Lowest Chronic Value for All Organisms, conventional benchmark for priority contaminants in fresh water (Suter and Tsao, 1996).

10. USEPA Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Since this work plan applies to surface water that is not intended for drinking, it is intended as an evaluation benchmark.

11. Conventional benchmark for priority contaminants in fresh water from Suter and Tsao, 1996; used for chronic Tier II metals benchmarks not established in BTAG.

 Concentration exceeds PA Chapter 93 Comparison Criteria outlined in the work plan.

 Concentration exceeds other (USEPA MCL, USEPA BTAG, or Suter and Tsao(1996)) benchmark outlined in the work plan.

TABLE 1 (PAGE 2 OF 7)
SURFACE WATER SUMMARY
MONTOR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOR, LLC
CEC PROJECT 132-065

Sample I.D.:	Date Collected:	CC-3				CC-4				
		3/10/2022	6/14/2022	9/23/2022	12/20/2022	3/10/2022	6/14/2022	9/23/2022	12/20/2022	12/20/2022 *
Parameter	Units									
Dissolved Metals										
Antimony, Dissolved	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Dissolved	mg/L	< 0.00055	0.00061 J	< 0.00055	< 0.00055	< 0.00055	0.00078 J	0.00064 J	< 0.00055	< 0.00055
Barium, Dissolved	mg/L	0.023	0.0277	0.0295	0.0207	0.0236	0.0261	0.0288	0.0202	0.0209
Beryllium, Dissolved	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Dissolved	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483
Cadmium, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Dissolved	mg/L	23	31.9	36.1	24.2	23	29.8	34.9	23.3	24
Chromium, Dissolved	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041
Cobalt, Dissolved	mg/L	0.00013 J	0.0002 J	0.00019 J	0.00019 J	0.00018 J	0.00015 J	0.00018 J	0.00015 J	0.00016 J
Lead, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Lithium, Dissolved	mg/L	0.00116	0.00434	0.0035	0.00147	0.00122	0.00378	0.00337	0.00141	0.00147
Molybdenum, Dissolved	mg/L	< 0.0003	0.00146	0.00171	0.00043 J	< 0.0003	0.00154	0.00121	0.00052 J	0.00045 J
Selenium, Dissolved	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Dissolved	mg/L	0.078	0.12	0.126	0.084	0.082	0.113	0.122	0.082	0.087
Thallium, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Total Metals										
Antimony, Total	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Total	mg/L	< 0.00055	< 0.00055	< 0.00081 J	< 0.00055	< 0.00055	< 0.00072 J	< 0.00055	< 0.00055	< 0.00055
Barium, Total	mg/L	0.0251	0.0296	0.0342	0.0233	0.0236	0.0272	0.0328	0.0253	0.0251
Beryllium, Total	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Total	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483
Cadmium, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Total	mg/L	23.2	29.6	34.9	23.5	22	27	34.8	23.5	22.6
Chromium, Total	mg/L	< 0.00041	< 0.00041	0.00044 J	< 0.00041	< 0.00041	< 0.00041	< 0.00041	0.00058 J	0.00053 J
Cobalt, Total	mg/L	0.00028 J	0.00042 J	0.0003 J	0.00025 J	0.00024 J	0.00019 J	0.00019 J	0.00042 J	0.00045 J
Lead, Total	mg/L	0.00035 J	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.00038 J	0.00034 J
Lithium, Total	mg/L	0.00155	0.00435	0.00448	0.00145	0.00148	0.0036	0.00401	0.00196	0.00157
Mercury, Total	mg/L	< 0.00003	< 0.0327	< 0.0000327	< 0.0327	< 0.00003	< 0.0327	0.0000643 J	< 0.0327	< 0.0327
Molybdenum, Total	mg/L	< 0.0003	0.00069 J	0.00226	< 0.0003	< 0.0003	0.00076 J	0.00239	0.0012	0.00045 J
Selenium, Total	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Total	mg/L	0.082	0.121	0.124	0.08	0.073	0.111	0.134	0.083	0.079
Thallium, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.00035 j	< 0.00023	< 0.00023
Non-Metals										
Alkalinity as CaCO3	mg/L	40	59.2	66.8	43	40	57.2	65.2	42	42
Chloride	mg/L	15.5	10.2	12.2	8.7	15.3	9.2	12.3	8.56	8.55
Fluoride	mg/L	0.09 J	0.08 J	0.13 J	0.17 J	0.09 J	0.1 J	0.2	0.17 J	0.17 J
Total Hardness as CaCO3	mg/L	77.2	96	113	78	73.2	88	112	78.3	75.3
pH	S.U.	7.4 H1	7.32 H1	7.3 H1	7.23 H1	7.46 H1	7.36 H1	7.44 H1	7.27 H1	7.24 H1
Sulfate	mg/L	25.3	46.9	48.3	34	25.3	43.3	48.5	32.8	32.8
Total Dissolved Solids	mg/L	127	166	160	110	142	155	161	109	110
Total Suspended Solids	mg/L	4.5 J	11.3	8.6	6.8	4.9 J	5.1	4.6 J	15.8	16.2
Turbidity	NTU	12	24	12	7.2	12	6.6	8.4	14	14
Combined Radium	pCi/L	4.54 +/- 8.16	0.939 +/- 0.844	0.89 +/- 0.993	0.536 +/- 0.74	0.348 +/- 0.83	0.122 +/- 0.659	0.768 +/- 1.13	0 +/- 0.688	0.375 +/- 0.659
Field Parameters										
Conductivity	µS/cm	209	246.1	295.1	199	206.3	254.5	293.2	199	199
Dissolved Oxygen	mg/L	12.8 N	7.57 N	9.21 N	13.77 N	12.81 N	7.82 N	9.14 N	13.91 N	13.91 N
Oxidation-Reduction Potential	mV	220.8 N	321.2 N	159.1 N	282.7 N	223.2 N	319.2 N	153.5 N	260.6 N	260.6 N
pH (SM4500B)	S.U.	6.98	7.44	7.44	7.08	7.05	7.53	7.57	7.07	7.07
Temperature	°C	6.9	21.9	15.9	2.2	4.9	22.6	16	2.3	2.3
Water Turbidity	NTU	10.77	11.81	12.9	10.62	10.69	6.89	9.64	11.45	11.45
Staff Gauge Reading	Feet	1.08	0.00	0.00	0.00	0.82	0.00	0.22	0.72	0.72
Staff Gauge Reading Elevation		509.889	508.81	508.81	508.81	505.592	504.77	504.992	505.492	505.492
Estimated Flow Rate	gpm	9,400	<2,500 +	<3,000 +	<3,000 +	25,700	<3,200 +	5,500	11,500	11,500

Notes:

Bolded values were detected at concentrations above laboratory reporting limits.

-- Denotes parameter not run and/or sample not collected.

* Denotes duplicate sample

H1 Holding time for preparation or analysis exceeded. The hold time for pH is 15 minutes. Field pH is collected immediately at the time of sample collection.

J Analyte detected below reporting limits; value is an estimate.

N Analyte not certified in NELAC Scope of Accreditation.

^ Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.

+ The stream channel was located below the stream gauge during some sampling events. Flow was estimated for these events based on the distance from the stream gauge to the surface of the stream, and the minimum flow calculated if the baseline stream stage was 0.0.

1. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Continuous Concentrations (CCC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

2. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Maximum Concentration (CMC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

3. Pennsylvania Code, Title 25, Chapter 93 Table 5: Human Health Criteria (HHC) Surface Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

Based on ingestion from drinking water, fish consumption and other modes of exposure.

4. Specific water quality criteria applicable to all waters of the state unless exceptions are specified. Standards from Table 3 of Pennsylvania Code, Title 25, Chapter 93.

5. Indicates dissolved metal criterion; others are total recoverable metals. Each listed dissolved criterion in Table 5 is equal to the corresponding total recoverable criterion before rounding (from the EPA National Ambient Water Quality Criteria Documents) multiplied by the conversion factor (from the Conversion Factors Table). A criterion that is expressed as a hardness (H)-based equation is shown in Table 5 as the conversion factor (listed) multiplied by the hardness criterion equation. Values vary from what was presented in the Work Plan. A range of values is provided based on the observed hardness at time of sampling. Standards varied between events and locations depending on hardness.

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8. USEPA Region 3 Tier II screening value (BTAG).

9. Lowest Chronic Value for All Organisms, conventional benchmark for priority contaminants in fresh water (Suter and Tsao, 1996).

10 USEPA Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Since this work plan applies to surface water that is not intended for drinking, it is intended as an evaluation benchmark.

11 Conventional benchmark for priority contaminants in fresh water from Suter and Tsao, 1996; used for chronic Tier II metals benchmarks not established in BTAG.

Concentration exceeds PA Chapter 93 Comparison Criteria outlined in the work plan.

Concentration exceeds other (USEPA MCL, USEPA BTAG, or Suter and Tsao(1996)) benchmark outlined in the work plan.

TABLE 1 (PAGE 3 OF 7)
SURFACE WATER SUMMARY
MONTOR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOR, LLC
CEC PROJECT 132-065

Sample I.D.:	Date Collected:	ECC-1					MCC-1					
		3/10/2022	3/10/2022 *	6/14/2022	9/23/2022	12/20/2022	12/20/2022 *	3/10/2022	6/14/2022	6/14/2022 *	9/23/2022	12/20/2022
Parameter	Units											
Dissolved Metals												
Antimony, Dissolved	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Dissolved	mg/L	< 0.00055	< 0.00055	< 0.00055	0.00073 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00068 J	< 0.00055
Barium, Dissolved	mg/L	0.0202	0.02	0.0237	0.0286	0.0173	0.0168	0.0288	0.0208	0.0211	0.024	0.0214
Beryllium, Dissolved	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Dissolved	mg/L	0.051 J	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483
Cadmium, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Dissolved	mg/L	16.5	16	19.3	27.2	15	14.7	24.1	20.2	19.9	26	20.1
Chromium, Dissolved	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041
Cobalt, Dissolved	mg/L	< 0.00013	< 0.00013	< 0.00013	0.00018 J	< 0.00013	< 0.00013	0.00017 J	0.00013 J	0.00013 J	0.00013 J	< 0.00013
Lead, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	0.0004 J	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Lithium, Dissolved	mg/L	< 0.00079	< 0.00079	0.00091 J	< 0.00079	0.00085 J	0.00081 J	0.00192	0.00263	0.00262	0.00239	0.00086 J
Molybdenum, Dissolved	mg/L	< 0.0003	< 0.0003	0.00084 J	0.00107	< 0.0003	< 0.0003	< 0.0003	0.00056 J	0.00167	0.00096 J	< 0.0003
Selenium, Dissolved	mg/L	< 0.00063	< 0.00063	< 0.00063	0.00082 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Dissolved	mg/L	0.061	0.058	0.076	0.097	0.055	0.052	0.081	0.079	0.078	0.097	0.073
Thallium, Dissolved	mg/L	0.00047 J	< 0.00023	< 0.00023	0.00084 J	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Total Metals												
Antimony, Total	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Total	mg/L	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00069 J	< 0.00055
Barium, Total	mg/L	0.0201	0.0207	0.0243	0.0321	0.0193	0.0187	0.0304	0.0229	0.0224	0.0312	0.0248
Beryllium, Total	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Total	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483	0.0136	< 0.0483	< 0.0483	< 0.0483
Cadmium, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Total	mg/L	16.3	16.9	17.8	26.9	14.6	14.2	23.7	18.9	18.2	25.2	19.5
Chromium, Total	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	0.00093 J	0.00043 J
Cobalt, Total	mg/L	< 0.00013	< 0.00013	0.00034 J	0.00018 J	< 0.00013	< 0.00013	0.0003 J	0.00027 J	0.00019 J	0.00023 J	0.00025 J
Lead, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.0003 J	< 0.00023	< 0.00023	< 0.00023	< 0.00023 J
Lithium, Total	mg/L	< 0.00079	< 0.00079	0.00092 J	0.00199	< 0.00079	< 0.00079	0.00224	0.00276	0.00269	0.00373	0.00105
Mercury, Total	mg/L	< 0.00003	< 0.00003	< 0.0327	< 0.0000327	< 0.0327	< 0.0327	< 0.00003	< 0.0327	< 0.0327	< 0.0000327	< 0.0327
Molybdenum, Total	mg/L	< 0.0003	< 0.0003	< 0.0003	0.00953	0.00079 J	0.00082 J	< 0.0003	0.00048 J	< 0.0003	0.00492	0.00033 J
Selenium, Total	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Total	mg/L	0.059	0.061	0.072	0.101	0.052	0.049	0.081	0.077	0.078	0.103	0.071
Thallium, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Non-Metals												
Alkalinity as CaCO3	mg/L	31.8	31.8	47.8	64.4	30.2	30	47	48.4	47.2	52.2	41
Chloride	mg/L	12.5	12.6	9.81	11.6	6.92	6.96	21.9	6.41	6.41	9.67	7.86
Fluoride	mg/L	0.08 J	0.08 J	0.06 J	0.17 J	0.15 J	0.16 J	0.11 J	0.08 J	0.12 J	0.24	0.18 J
Total Hardness as CaCO3	mg/L	55	57	59	87.6	48.4	47.2	82	65	62	90.9	67.7
pH	S.U.	7.15 H1	7.36 H1	7.26 H1	7.22 H1	6.88 H1	7.09 H1	7.34 H1	7.32 H1	7.39 H1	7.2 H1	7.17 H1
Sulfate	mg/L	16	16	15.8	23.1	15.2	15.2	24.3	20.5	20.5	36.4	23.2
Total Dissolved Solids	mg/L	99	125	107	124	60	62	148	114	111	121	94
Total Suspended Solids	mg/L	3.2 J	2.6 J	5.6	9.6	2.4 J	2.5 J	4.2 J	7	6.6	8	9.4
Turbidity	NTU	6	6	5.9	11	3.8	3.9	17	9.9	8.1	12	8.9
Combined Radium	pCi/L	0.275 +/- 0.568	0.717 +/- 0.76	0.664 +/- 0.781	0.363 +/- 0.982	0.903 +/- 0.763	0.989 +/- 0.681	1.3 +/- 5.61	0.425 +/- 0.764	1.25 +/- 0.972	3.77 +/- 1.57	0.836 +/- 0.884
Field Parameters												
Conductivity	µS/cm	164.2	164.2	182.5	235.6	139.5	139.5	239.7	181	181	228.3	174.2
Dissolved Oxygen	mg/L	13.67 N	13.67 N	8.19 N	9.7 N	13.68 N	13.68 N	13.18 N	7.98 N	7.98 N	8.92 N	13.62 N
Oxidation-Reduction Potential	mV	271.1 N	271.1 N	341.9 N	149.5 N	336.6 N	336.6 N	225.3 N	323.7 N	323.7 N	159.1 N	305 N
pH (SM4500B)	S.U.	6.93	6.93	7.15	7.63	6.79	6.79	6.63	7.21	7.21	7.33	6.83
Temperature	°C	2.5	2.5	19.8	13.9	2	2	2.4	19	19	15.8	2.3
Water Turbidity	NTU	4.73	4.73	16.05	10.4	2.8	2.8	13.05	6.52	6.52	11.12	8.13
Staff Gauge Reading	Feet	0.92	0.92	0.34	0.54	0.84	0.84	0.64	0.52	0.52	0.64	0.86
Staff Gauge Reading Elevation		544.859	544.859	544.279	544.479	544.779	544.779	520.162	520.042	520.042	520.162	520.382
Estimated Flow Rate	gpm	8,300	8,300	3,800	5,300	7,600	7,600	1,300	700	700	1,200	2,000

Notes:

Bolded values were detected at concentrations above laboratory reporting limits.

-- Denotes parameter not run and/or sample not collected.

* Denotes duplicate sample

H1 Holding time for preparation or analysis exceeded. The hold time for pH is 15 minutes. Field pH is collected immediately at the time of sample collection.

J Analyte detected below reporting limits; value is an estimate.

N Analyte not certified in NELAC Scope of Accreditation.

^ Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.

+ The stream channel was located below the stream gauge during some sampling events. Flow was estimated for these events based on the distance from the stream gauge to the surface of the stream, and the minimum flow calculated if the baseline stream stage was 0.0.

1. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Continuous Concentrations (CCC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

2. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Maximum Concentration (CMC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

3. Pennsylvania Code, Title 25, Chapter 93 Table 5: Human Health Criteria (HHC) Surface Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

Based on ingestion from drinking water, fish consumption and other modes of exposure.

4. Specific water quality criteria applicable to all waters of the state unless exceptions are specified. Standards from Table 3 of Pennsylvania Code, Title 25, Chapter 93.

5. Indicates dissolved metal criterion; others are total recoverable metals. Each listed dissolved criterion in Table 5 is equal to the corresponding total recoverable criterion before rounding (from the EPA National Ambient Water Quality Criteria Documents) multiplied by the conversion factor (from the Conversion Factors Table). A criterion that is expressed as a hardness (H)-based equation is shown in Table 5 as the conversion factor (listed) multiplied by the hardness criterion equation. Values vary from what was presented in the Work Plan. A range of values is provided based on the observed hardness at time of sampling. Standards varied between events and locations depending on hardness.

6. Based on Chromium III criteria.

7. Only applicable at planned or existing public water supply intakes and not applicable for this site. Standard presented for the limited purpose of evaluating water conditions at MSES.

8. USEPA Region 3 Tier II screening value (BTAG).

9. Lowest Chronic Value for All Organisms, conventional benchmark for priority contaminants in fresh water (Suter and Tsao, 1996).

10 USEPA Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Since this work plan applies to surface water that is not intended for drinking, it is intended as an evaluation benchmark.

11 Conventional benchmark for priority contaminants in fresh water from Suter and Tsao, 1996; used for chronic Tier II metals benchmarks not established in BTAG.

Concentration exceeds PA Chapter 93 Comparison Criteria outlined in the work plan.

Concentration exceeds other (USEPA MCL, USEPA BTAG, or Suter and Tsao(1996)) benchmark outlined in the work plan.

TABLE 1 (PAGE 4 OF 7)
SURFACE WATER SUMMARY
MONTOR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOR, LLC
CEC PROJECT 132-065

Sample I.D.:	MP-3-5					Trib 18787 (1)				
	Date Collected:	3/22/2022	3/22/2022 *	6/14/2022	9/27/2022	12/20/2022	3/10/2022	6/14/2022	9/21/2022	12/19/2022
Parameter	Units									
Dissolved Metals										
Antimony, Dissolved	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Dissolved	mg/L	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00187	0.00138	< 0.00055
Barium, Dissolved	mg/L	0.0231	0.0233	0.0252	0.0234	0.0235	0.0363	0.0445	0.0598	0.0389
Beryllium, Dissolved	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Dissolved	mg/L	0.303	0.419	0.303	0.26	0.167	< 0.0483	0.049 J	0.061 J	< 0.0483
Cadmium, Dissolved	mg/L	0.00016 J	0.00016 J	0.00038 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Dissolved	mg/L	342	322	393	308	288	33.1	45.6	33.2	31.4
Chromium, Dissolved	mg/L	0.0009 J	0.00089 J	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041
Cobalt, Dissolved	mg/L	0.0203	0.0193	0.014	0.00437	0.00338	0.00021 J	0.00098 J	0.0006 J	0.00027 J
Lead, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Lithium, Dissolved	mg/L	0.0247	0.0233	0.0387	0.0181	0.0167	< 0.00079	0.00113	< 0.00079	0.00102
Molybdenum, Dissolved	mg/L	0.00265	0.00251	0.00263	0.00748	0.00552	0.00055 J	0.00277	0.00189	0.00049 J
Selenium, Dissolved	mg/L	0.00156 J	0.00138 J	< 0.00063	< 0.00063	0.00074 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Dissolved	mg/L	0.994	1.00	1.06	0.877	0.776	0.074	0.144	0.105	0.086
Thallium, Dissolved	mg/L	< 0.00023	< 0.00023	0.00032 J	< 0.00023	< 0.00023	0.00045 J	0.00037 J	< 0.00023	< 0.00023
Total Metals										
Antimony, Total	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Total	mg/L	< 0.00055	< 0.00055	< 0.00055	0.00099 J	< 0.00055	0.0006 J	0.00169	0.00224	0.00065 J
Barium, Total	mg/L	0.028	0.0276	0.0226	0.0281	0.0265	0.042	0.0522	0.067	0.0676
Beryllium, Total	mg/L	0.00038 J	0.00036 J	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Total	mg/L	0.262	0.27	0.34	0.296	0.169	< 0.0483	< 0.0483	0.049 J	< 0.0483
Cadmium, Total	mg/L	< 0.00015	< 0.00015	0.00035 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Total	mg/L	342	317	353	281	281	29.5	41.3	32	30.7
Chromium, Total	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	0.00047 J	0.00203
Cobalt, Total	mg/L	0.019	0.0198	0.0156	0.0058	0.00361	0.00034 J	0.00112	0.00068 J	0.00043 J
Lead, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	0.00416	< 0.00023	0.00086 J	< 0.00023	0.00041 J	0.00085 J
Lithium, Total	mg/L	0.00235	0.00238	0.0345	0.0241	0.0169	< 0.00079	0.0008 J	0.00088 J	0.00247
Mercury, Total	mg/L	< 0.00003	< 0.00003	< 0.0327	< 0.0000327	< 0.0327	< 0.00003	< 0.0327	< 0.0000327	< 0.0327
Molybdenum, Total	mg/L	0.0108	0.0105	0.00179	0.00866	0.00563	< 0.0003	0.00177	0.00196	0.00073 J
Selenium, Total	mg/L	0.0011 J	< 0.00063	< 0.00063	< 0.00063	0.00077 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Total	mg/L	0.955	0.989	1.03	1.02	0.783	0.077	0.143	0.107	0.086
Thallium, Total	mg/L	0.00025 J	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Non-Metals										
Alkalinity as CaCO3	mg/L	173	173	142	223	202	58.1	122	84.4	50.4
Chloride	mg/L	35.8	37.1	24.1	20.3	30	25.8	31.1	24.8	14.8
Fluoride	mg/L	0.15 J	0.15 J	0.17 J	0.16 J	0.15 J	0.13 J	0.14 J	0.23	0.18 J
Total Hardness as CaCO3	mg/L	984	925	926	1,010	793	98	140	111	103
pH	S.U.	7.39 H1	7.25 H1	7.62 H1	7.62 H1	7.69 H1	7.66 H1	7.31 H1	7.27 H1	6.99 H1
Sulfate	mg/L	785	816	864	719	596	18.3	16.6	25.4	42.9
Total Dissolved Solids	mg/L	1,350	1,380	1,450	1,320	1,060	197	245	191	171
Total Suspended Solids	mg/L	10	14.9	14.2	49	2.1 J	6.1	4.6 J	8	8.6
Turbidity	NTU	50	29	6.3	21	2.7	27	8.1	22	27
Combined Radium	pCi/L	0.454 +/- 0.63	0.546 +/- 0.69	1.04 +/- 1.06	0 +/- 0.953	0.841 +/- 0.818	4.65 +/- 6.28	0.612 +/- 0.986	0.29 +/- 1.09	0.784 +/- 0.771
Field Parameters										
Conductivity	µS/cm	1,595	1,595	2,791	1,623	1,490	260.9	397.4	326.3	261
Dissolved Oxygen	mg/L	9.67 N	9.67 N	8.14 N	8.43 N	12.65 N	15.03 N	4.25 N	4 N	12.79 N
Oxidation-Reduction Potential	mV	106 N	106 N	172 N	147 N	143 N	210.4 N	320.1 N	144.5 N	269.8 N
pH (SM4500B)	S.U.	6.99	6.99	7.21	6.86	7.46	7.54	7.08	6.87	6.84
Temperature	°C	9.6	9.6	22.1	15.6	4.8	8.7	23.1	22.4	0.7
Water Turbidity	NTU	17.8	17.8	3.54	4.66	6.04	24.1	25.3	19.93	24.8
Staff Gauge Reading	Feet	1.00	1.00	0.90	0.98	1.06	1.38	0.36	0.22	0.98
Staff Gauge Reading Elevation		523.47	523.47	523.37	523.45	523.53	521.754	520.734	520.594	521.354
Estimated Flow Rate	gpm	100	100	100	100	200	700	100	100	500

Notes:

Bolded values were detected at concentrations above laboratory reporting limits.

-- Denotes parameter not run and/or sample not collected.

* Denotes duplicate sample

H1Holding time for preparation or analysis exceeded. The hold time for pH is 15 minutes. Field pH is collected immediately at the time of sample collection.

J Analyte detected below reporting limits; value is an estimate.

N Analyte not certified in NELAC Scope of Accreditation.

^ Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.

+ The stream channel was located below the stream gauge during some sampling events. Flow was estimated for these events based on the distance from the stream gauge to the surface of the stream, and the minimum flow calculated if the baseline stream stage was 0.0.

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Based on ingestion from drinking water, fish consumption and other modes of exposure.

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5. Indicates dissolved metal criterion; others are total recoverable metals. Each listed dissolved criterion in Table 5 is equal to the corresponding total recoverable criterion before rounding (from the EPA National Ambient Water Quality Criteria Documents) multiplied by the conversion factor (from the Conversion Factors Table). A criterion that is expressed as a hardness (H)-based equation is shown in Table 5 as the conversion factor (listed) multiplied by the hardness criterion equation. Values vary from what was presented in the Work Plan. A range of values is provided based on the observed hardness at time of sampling. Standards varied between events and locations depending on hardness.

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7. Only applicable at planned or existing public water supply intakes and not applicable for this site. Standard presented for the limited purpose of evaluating water conditions at MSES.

8. USEPA Region 3 Tier II screening value (BTAG).

9. Lowest Chronic Value for All Organisms, conventional benchmark for priority contaminants in fresh water (Suter and Tsao, 1996).

10 USEPA Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Since this work plan applies to surface water that is not intended for drinking, it is intended as an evaluation benchmark.

11 Conventional benchmark for priority contaminants in fresh water from Suter and Tsao, 1996; used for chronic Tier II metals benchmarks not established in BTAG.

Yellow box: Concentration exceeds PA Chapter 93 Comparison Criteria outlined in the work plan.

Blue box: Concentration exceeds other (USEPA MCL, USEPA BTAG, or Suter and Tsao(1996)) benchmark outlined in the work plan.

TABLE 1 (PAGE 5 OF 7)
SURFACE WATER SUMMARY
MONTOR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOR, LLC
CEC PROJECT 132-065

Sample I.D.:	Trib 18787 (2)				Trib 18787 (3)				
	Date Collected:	3/10/2022	6/15/2022	9/21/2022	12/19/2022	3/10/2022	6/14/2022	9/21/2022	12/19/2022
Parameter	Units								
Dissolved Metals									
Antimony, Dissolved	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Dissolved	mg/L	< 0.00055	0.00129	0.00096 J	< 0.00055	< 0.00055	0.0007 J	< 0.00055	< 0.00055
Barium, Dissolved	mg/L	0.0341	0.0395	0.0704	0.0378	0.0346	0.0529	0.04426	0.038
Beryllium, Dissolved	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Dissolved	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	0.051 J	0.289	0.177	0.053 J
Cadmium, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Dissolved	mg/L	40.1	74.5	103	54.2	102	285	262	134
Chromium, Dissolved	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041
Cobalt, Dissolved	mg/L	0.00013 J	0.00041 J	0.00148	0.00045 J	0.0009 J	0.00089 J	0.00078 J	0.00072 J
Lead, Dissolved	mg/L	< 0.00023	0.00027 J	< 0.00023	< 0.00023	0.00054 J	< 0.00023	< 0.00023	< 0.00023
Lithium, Dissolved	mg/L	0.00099 J	0.00276	0.0036	0.00216	0.0121	0.0855	0.0385	0.0145
Molybdenum, Dissolved	mg/L	< 0.0003	0.00329	0.00467	0.00081 J	0.00998	0.0297	0.0139	0.00981
Selenium, Dissolved	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	0.00104 J	< 0.00063	0.00081 J
Strontium, Dissolved	mg/L	0.114	0.229	0.299	0.15	0.327	0.932	0.812	0.418
Thallium, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Total Metals									
Antimony, Total	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Total	mg/L	< 0.00055	0.00083 J	0.00143	0.00076 J	< 0.00055	< 0.00055	0.00078 J	< 0.00055
Barium, Total	mg/L	0.0391	0.0441	0.0748	0.0676	0.0377	0.0548	0.0484	0.0496
Beryllium, Total	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Total	mg/L	< 0.0483	< 0.0483	0.049 J	< 0.0483	< 0.0483	< 0.0483	0.176	0.05 J
Cadmium, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Total	mg/L	40.3	70.9	96	57	110	244	244	132
Chromium, Total	mg/L	< 0.00041	< 0.00041	< 0.00041	0.00212	< 0.00041	< 0.00041	< 0.00041	0.00085 J
Cobalt, Total	mg/L	0.00023 J	0.00054 J	0.00153	0.00067 J	0.00124	0.00184	0.00106	0.00085 J
Lead, Total	mg/L	0.00068 J	< 0.00023	< 0.00023	0.0007 J	0.00055 J	< 0.00023	< 0.00023	0.00032 J
Lithium, Total	mg/L	0.00143	0.00232	0.0034	0.00366	0.0125	0.0769	0.0333	0.0148
Mercury, Total	mg/L	< 0.00003	< 0.0327	< 0.0000327	< 0.0327	< 0.00003	< 0.0327	< 0.0000327	< 0.0327
Molybdenum, Total	mg/L	< 0.0003	0.00287	0.00366	0.00192	0.00962	0.0335	0.0139	0.00983
Selenium, Total	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	0.00065 J	0.00201 J	0.00075 J	0.00077 J
Strontium, Total	mg/L	0.116	0.23	0.299	0.157	0.329	0.932	0.782	0.392
Thallium, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.0003 J	< 0.00023	< 0.00023	< 0.00023
Non-Metals									
Alkalinity as CaCO3	mg/L	47.6	118	186	56.8	82.2	172	87.4	112
Chloride	mg/L	15.6	20.7	15.5	12.1	31.5	31.2	27.7	30
Fluoride	mg/L	0.13 J	0.24	0.22	0.18 J	0.14 J	0.18 J	0.2	0.11 J
Total Hardness as CaCO3	mg/L	128	219	288	169	318	730	706	383
pH	S.U.	7.73 H1	7.5 H1	7.82 H1	7.11 H1	7.66 H1	7.74 H1	7.27 H1	7.37 H1
Sulfate	mg/L	58.8	75.8	200	98	208	558	542	266
Total Dissolved Solids	mg/L	220	302	423	264	452	1,040	1,000	540
Total Suspended Solids	mg/L	3.4 J	12	5.8	6.4	8.5	11.7	18	5.3
Turbidity	NTU	27	4.7	33	20	29	10	6.2	12
Combined Radium	pCi/L	0 +/- 3.7	0.916 +/- 0.898	0.786 +/- 0.995	1.25 +/- 1.23	1.98 +/- 4.72	0.319 +/- 0.9	0.755 +/- 0.947	1.02 +/- 0.787
Field Parameters									
Conductivity	µS/cm	288.7	524	620	372.3	631	1,389	1,327	746
Dissolved Oxygen	mg/L	14.55 N	2.73 N	4.8 N	13.03 N	13.41 N	8.27 N	8.74 N	12.85 N
Oxidation-Reduction Potential	mV	189.4 N	210.9 N	101.1 N	240 N	206.4 N	308.7 N	133.1 N	256.5 N
pH (SM4500B)	S.U.	7.62	6.68	6.79	7.1	7.53	7.86	7.62	7.13
Temperature	°C	8.2	21.9	18	0.5	7.3	21.8	18.7	1.7
Water Turbidity	NTU	21.2	4.92	19.88	18.15	18.75	9.25	6.04	12.14
Staff Gauge Reading	Feet	1.52	0.00	0.00	1.38	1.32	0.7	0.54	0.94
Staff Gauge Reading Elevation		514.813	513.29	513.29	514.67	508.396	507.776	507.616	508.016
Estimated Flow Rate	gpm	1,500	100 +	150 +	1,200	2,100	900	700	1,400

Notes:

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-- Denotes parameter not run and/or sample not collected.

* Denotes duplicate sample

H1Holding time for preparation or analysis exceeded. The hold time for pH is 15 minutes. Field pH is collected immediately at the time of sample collection.

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Based on ingestion from drinking water, fish consumption and other modes of exposure.

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5. Indicates dissolved metal criterion; others are total recoverable metals. Each listed dissolved criterion in Table 5 is equal to the corresponding total recoverable criterion before rounding (from the EPA National Ambient Water Quality Criteria Documents) multiplied by the conversion factor (from the Conversion Factors Table). A criterion that is expressed as a hardness (H)-based equation is shown in Table 5 as the conversion factor (listed) multiplied by the hardness criterion equation. Values vary from what was presented in the Work Plan. A range of values is provided based on the observed hardness at time of sampling. Standards varied between events and locations depending on hardness.

6. Based on Chromium III criteria.

7. Only applicable at planned or existing public water supply intakes and not applicable for this site. Standard presented for the limited purpose of evaluating water conditions at MSES.

8. USEPA Region 3 Tier II screening value (BTAG).

9. Lowest Chronic Value for All Organisms, conventional benchmark for priority contaminants in fresh water (Suter and Tsao, 1996).

10 USEPA Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Since this work plan applies to surface water that is not intended for drinking, it is intended as an evaluation benchmark.

11 Conventional benchmark for priority contaminants in fresh water from Suter and Tsao, 1996; used for chronic Tier II metals benchmarks not established in BTAG.

Yellow Concentration exceeds PA Chapter 93 Comparison Criteria outlined in the work plan.

Blue Concentration exceeds other (USEPA MCL, USEPA BTAG, or Suter and Tsao(1996)) benchmark outlined in the work plan.

TABLE 1 (PAGE 6 OF 7)
SURFACE WATER SUMMARY
MONTOR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOR, LLC
CEC PROJECT 132-065

Sample I.D.:	Trib 18788					Trib 18790					
	Date Collected:	3/10/2022	6/14/2022	6/14/2022 *	9/21/2022	12/19/2022	3/10/2022	6/14/2022	9/23/2022	9/23/2022 *	12/19/2022
Parameter	Units										
Dissolved Metals											
Antimony, Dissolved	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Dissolved	mg/L	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.0036	0.00061 J	0.0007 J	< 0.00055
Barium, Dissolved	mg/L	0.0327	0.0323	0.0331	0.0333	0.0314	0.0349	0.0451	0.0412	0.0406	0.0374
Beryllium, Dissolved	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Dissolved	mg/L	0.101	0.37	0.394	0.226	0.098 J	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483
Cadmium, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Dissolved	mg/L	202	287	300	304	219	50.4	96.4	73.4	73.3	51.3
Chromium, Dissolved	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	< 0.00041	0.00201	< 0.00041	< 0.00041
Cobalt, Dissolved	mg/L	0.00291	0.00113	0.00121	0.00139	0.00088 J	< 0.00013	0.00084 J	< 0.00013	< 0.00013	< 0.00013
Lead, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Lithium, Dissolved	mg/L	0.014	0.0566	0.057	0.0341	0.0172	< 0.00079	0.00273	0.00216	0.0021	0.00162
Molybdenum, Dissolved	mg/L	0.00412	0.0228	0.023	0.0116	0.00752	< 0.0003	0.00223	0.00155	0.00144	0.00044 J
Selenium, Dissolved	mg/L	0.00082 J	0.00137 J	0.00117 J	< 0.00063	0.00151 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Dissolved	mg/L	0.564	0.908	0.915	0.919	0.613	0.122	0.203	0.18	0.172	0.137
Thallium, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Total Metals											
Antimony, Total	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Arsenic, Total	mg/L	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00483	0.00075 J	0.00066 J	< 0.00055
Barium, Total	mg/L	0.0333	0.0339	0.0329	0.0349	0.0345	0.039	0.066	0.0451	0.0428	0.0494
Beryllium, Total	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
Boron, Total	mg/L	0.097 J	0.325	0.323	0.225	0.091 J	< 0.0483	< 0.0483	< 0.0483	< 0.0483	< 0.0483
Cadmium, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium, Total	mg/L	205.3	271	260	293	212	48.8	33.2	69.8	69.6	65.8
Chromium, Total	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	0.0017	< 0.00041	< 0.00041	< 0.00041	0.00097 J	0.00056 J
Cobalt, Total	mg/L	0.00297	0.0018	0.00181	0.00144	0.00099 J	0.00015 J	0.00111	< 0.00013	< 0.00013	0.00021 J
Lead, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.00047 J	0.00047 J	< 0.00023	< 0.00023	0.0005 J
Lithium, Total	mg/L	0.0143	0.0545	0.0531	0.0383	0.0172	0.00106	0.00194	0.0026	0.00262	0.0022
Mercury, Total	mg/L	< 0.00003	< 0.0327	< 0.0327	< 0.0000327	< 0.0327	< 0.00003	< 0.0000327	0.00006759 J	< 0.0000327	< 0.0327
Molybdenum, Total	mg/L	0.00413	0.025	0.0222	0.0124	0.00803	0.00052 J	0.00161	0.00176	0.00153	0.00048 J
Selenium, Total	mg/L	0.00098 J	0.00119 J	0.00099 J	0.00082 J	0.00138 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Strontium, Total	mg/L	0.556	0.916	0.897	0.903	0.58	0.117	0.21	0.178	0.169	0.162
Thallium, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	0.00037 J	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023
Non-Metals											
Alkalinity as CaCO3	mg/L	153	177	178	214	186	95.7	259	174	175	126
Chloride	mg/L	36.9	27.3	27.4	20.2	25.1	73.1	70.5	33	33.1	71
Fluoride	mg/L	0.17 J	0.18 J	0.18 J	0.19 J	0.13 J	0.09 J	0.13 J	0.19 J	0.16 J	0.13 J
Total Hardness as CaCO3	mg/L	588	787	755	861	604	137	236	188	195	182
pH	S.U.	7.78 H1	7.71 H1	7.68 H1	7.69 H1	7.48 H1	7.73 H1	7.58 H1	7.58 H1	7.5 H1	7.6 H1
Sulfate	mg/L	366	615	613	656	411	25.3	14.8	31.6	31.6	42.1
Total Dissolved Solids	mg/L	798	1,110	1,130	1,190	793	287	396	274	274	314
Total Suspended Solids	mg/L	< 2	4.8 J	7	2.4 J	2.4 J	2.8 J	66.7	18.2	2.8 J	24
Turbidity	NTU	2.2	2.9	3	1.9	1.7	19	60	25	14	24
Combined Radium	pCi/L	0.34 +/- 0.877	0.555 +/- 0.677	0.804 +/- 0.893	0.914 +/- 1.24	1.56 +/- 0.954	1.62 +/- 5.72	0.543 +/- 0.747	1.06 +/- 1.03	0.876 +/- 0.861	0.395 +/- 0.797
Field Parameters											
Conductivity	µS/cm	951	1,458	1,458	1,520	1,509	470.7	746	499.8	499.8	543
Dissolved Oxygen	mg/L	12.61 N	12.7 N	12.7 N	9.76 N	13.98 N	14.7 N	2.88 N	6.49 N	6.49 N	13.89 N
Oxidation-Reduction Potential	mV	226.9 N	313.2 N	313.2 N	89.1 N	232.7 N	235.9 N	119.1 N	161.1 N	161.1 N	245.6 N
pH (SM4500B)	S.U.	7.07	7.71	7.71	7.48	7.46	6.73	7.02	7.36	7.36	7.35
Temperature	°C	8.6	22	22	18.2	3.3	2.7	17.4	12.2	12.2	0.6
Water Turbidity	NTU	4.03	4.29	4.29	4.81	0.44	15.19	42.03	15.91	15.91	13.02
Staff Gauge Reading	Feet	0.68	0.32	0.32	0.44	0.62	0.40	0.22	0.26	0.26	0.34
Staff Gauge Reading Elevation		512.342	511.982	511.982	512.102	512.282	550.44	550.26	550.30	550.30	550.38
Estimated Flow Rate	gpm	200	100	100	100	200	10	<5	<5	<5	10

Notes:

Bolded values were detected at concentrations above laboratory reporting limits.

-- Denotes parameter not run and/or sample not collected.

* Denotes duplicate sample

H1Holding time for preparation or analysis exceeded. The hold time for pH is 15 minutes. Field pH is collected immediately at the time of sample collection.

J Analyte detected below reporting limits; value is an estimate.

N Analyte not certified in NELAC Scope of Accreditation.

^ Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.

+ The stream channel was located below the stream gauge during some sampling events. Flow was estimated for these events based on the distance from the stream gauge to the surface of the stream, and the minimum flow calculated if the baseline stream stage was 0.0.

1. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Continuous Concentrations (CCC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

2. Pennsylvania Code, Title 25, Chapter 93 Table 5: Criteria Maximum Concentration (CMC) Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

3. Pennsylvania Code, Title 25, Chapter 93 Table 5: Human Health Criteria (HHC) Surface Water Quality Criteria (WQC) for Toxic Substances effective date July 11, 2020.

Based on ingestion from drinking water, fish consumption and other modes of exposure.

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Yellow Concentration exceeds PA Chapter 93 Comparison Criteria outlined in the work plan.

Blue Concentration exceeds other (USEPA MCL, USEPA BTAG, or Suter and Tsao(1996)) benchmark outlined in the work plan.

TABLE 1 (PAGE 7 OF 7)
SURFACE WATER SUMMARY
MONTOR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOR, LLC
CEC PROJECT 132-065

Sample I.D.:	Date Collected:	Field Blank				Fish and Aquatic Life		Human Health Criteria ³	Specific Water Quality Criteria ⁴
		3/10/2022	6/14/2022	9/23/2022	12/20/2022	Continuous Concentration (Chronic) ¹	Maximum Concentration (Acute) ²		
Parameter	Units								
Dissolved Metals									
Antimony, Dissolved	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	nse	nse	nse	nse
Arsenic, Dissolved	mg/L	< 0.00055	< 0.00055	< 0.00055	< 0.00055	nse	nse	nse	nse
Barium, Dissolved	mg/L	< 0.00023	< 0.00024 J	< 0.00023	< 0.00023	nse	nse	nse	nse
Beryllium, Dissolved	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	nse	nse	nse	nse
Boron, Dissolved	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	nse	nse	nse	nse
Cadmium, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.00017-0.0012 ⁵	0.0012-0.018 ⁵	nse	nse
Calcium, Dissolved	mg/L	0.07 J	0.104 J	< 0.0384	0.415 J	nse	nse	nse	nse
Chromium, Dissolved	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	0.048-0.46 ^{5,6}	0.37-3.5 ^{5,6}	nse	nse
Cobalt, Dissolved	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	nse	nse	nse	nse
Lead, Dissolved	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.0014-0.025 ⁵	0.036-0.65 ⁵	nse	nse
Lithium, Dissolved	mg/L	< 0.00079	< 0.00079	< 0.00079	< 0.00079	nse	nse	nse	nse
Molybdenum, Dissolved	mg/L	< 0.0003	< 0.0004 J	0.00054 J	< 0.0003	nse	nse	nse	nse
Selenium, Dissolved	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	0.0046 ⁶	nse	nse	nse
Strontium, Dissolved	mg/L	< 0.00245	< 0.00245	< 0.00245	< 0.00245	nse	nse	nse	nse
Thallium, Dissolved	mg/L	0.00042 J	< 0.00023	< 0.00023	< 0.00023	nse	nse	nse	nse
Total Metals									
Antimony, Total	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.22	1.1	0.0056 ⁷	nse
Arsenic, Total	mg/L	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.15	0.34	0.01	nse
Barium, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	4.1	21	2.4	nse
Beryllium, Total	mg/L	< 0.00019	< 0.00019	< 0.00019	< 0.00019	0.66 ^{8,11}	35 ¹¹	nse	nse
Boron, Total	mg/L	< 0.0483	< 0.0483	< 0.0483	< 0.0483	1.6	8.1	3.1	nse
Cadmium, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	nse	nse	nse	nse
Calcium, Total	mg/L	< 0.0384	0.102 J	< 0.0384	0.119 J	nse	nse	nse	116 ^{8,9}
Chromium, Total	mg/L	< 0.00041	< 0.00041	< 0.00041	< 0.00041	nse	nse	nse	nse
Cobalt, Total	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.019	0.095	nse	nse
Lead, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	nse	nse	nse	nse
Lithium, Total	mg/L	< 0.00079	< 0.00079	< 0.00079	< 0.00079	0.014 ^{8,11}	0.260 ¹¹	nse	nse
Mercury, Total	mg/L	< 0.00003	< 0.0327	< 0.0000327	< 0.0327	nse	nse	nse	nse
Molybdenum, Total	mg/L	< 0.0003	< 0.0003	< 0.0003	0.00086 J	0.073 ⁸	16 ¹¹	nse	nse
Selenium, Total	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	nse	nse	nse	nse
Strontium, Total	mg/L	< 0.00245	< 0.00245	< 0.00245	< 0.00245	nse	nse	4	nse
Thallium, Total	mg/L	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.013	0.065	0.00024 ⁴	nse
Non-Metals									
Alkalinity as CaCO ₃	mg/L	2.99 J	< 1	2.4 J	3 J	nse	nse	nse	nse
Chloride	mg/L	< 0.0352	1.1	< 0.0352	< 0.218	nse	nse	nse	250 ⁷
Fluoride	mg/L	< 0.0281	< 0.0281	< 0.0281	< 0.0281	nse	nse	nse	2.0 (daily average) ⁷
Total Hardness as CaCO ₃	mg/L	< 0.21	< 0.21	< 0.21	0.352 J	nse	nse	nse	nse
pH	S.U.	6.14 H1	6.4 H1	6.99 H1	7.89 H1	nse	nse	nse	6.0-9.0 ⁴
Sulfate	mg/L	< 0.252	< 0.252	< 0.252	< 0.252	nse	nse	nse	250 (max) ⁷
Total Dissolved Solids	mg/L	24	4 J	< 1	< 1	nse	nse	nse	750 (max) ⁷
Total Suspended Solids	mg/L	< 2	< 2	< 2	< 2	nse	nse	nse	nse
Turbidity	NTU	0.3	0.45	0.65	1.3	nse	nse	nse	nse
Combined Radium	pCi/L	0.326 +/- 0.773	0.306 +/- 0.825	0.231 +/- 0.923	0.894 +/- 0.732	nse	nse	nse	5 ¹⁰
Field Parameters									
Conductivity	µS/cm	--	--	--	--	nse	nse	nse	nse
Dissolved Oxygen	mg/L	--	--	--	--	nse	nse	nse	nse
Oxidation-Reduction Potential	mV	--	--	--	--	nse	nse	nse	nse
pH (SM4500B)	S.U.	--	--	--	--	nse	nse	nse	6.0-9.0 ⁴
Temperature	°C	--	--	--	--	nse	nse	nse	nse
Water Turbidity	NTU	--	--	--	--	nse	nse	nse	nse
Staff Gauge Reading	Feet	--	--	--	--	nse	nse	nse	nse
Staff Gauge Reading Elevation		--	--	--	--	nse	nse	nse	nse
Estimated Flow Rate	gpm	--	--	--	--	nse	nse	nse	nse

Notes:

Bolded values were detected at concentrations above laboratory reporting limits.

-- Denotes parameter not run and/or sample not collected.

* Denotes duplicate sample

H1 Holding time for preparation or analysis exceeded. The hold time for pH is 15 minutes. Field pH is collected immediately at the time of sample collection.

J Analyte detected below reporting limits; value is an estimate.

N Analyte not certified in NELAC Scope of Accreditation.

^ Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.

+ The stream channel was located below the stream gauge during some sampling events. Flow was estimated for these events based on the distance from the stream gauge to the surface of the stream, and the minimum flow calculated if the baseline stream stage was 0.0.

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11 Conventional benchmark for priority contaminants in fresh water from Suter and Tsao, 1996; used for chronic Tier II metals benchmarks not established in BTAG.

Yellow box: Concentration exceeds PA Chapter 93 Comparison Criteria outlined in the work plan.

Blue box: Concentration exceeds other (USEPA MCL, USEPA BTAG, or Suter and Tsao(1996)) benchmark outlined in the work plan.

APPENDIX A

PHOTOGRAPHS OF SURFACE WATER SAMPLE LOCATIONS

132-065
Montour Steam Electric Station Surface Water Monitoring Locations
Montour, LLC
February 28-March 3, 2022



ECC-1 Stream Gauge



ECC-1 Downstream View



MCC-1 Stream Gauge



MCC-1 Downstream View



CC-1 Stream Gauge



CC-1 Downstream View

132-065
Montour Steam Electric Station Surface Water Monitoring Locations
Montour, LLC
February 28-March 3, 2022



CC-2 Stream Gauge



CC-2 Upstream View



CC-3 Stream Gauge



CC-3 Downstream View



CC-4 Stream Gauge



CC-4 Downstream View

132-065
Montour Steam Electric Station Surface Water Monitoring Locations
Montour, LLC
February 28-March 3, 2022



Trib 18787(1) Stream Gauge



Trib 18787(1) Upstream View



Trib 18787(2) Stream Gauge



Trib 18787(2) Downstream View



Trib 18787(3) Stream Gauge



Trib 18787(3) Downstream View

132-065
Montour Steam Electric Station Surface Water Monitoring Locations
Montour, LLC
February 28-March 3, 2022



Trib 18788 Stream Gauge



Trib 18788 Downstream View



Trib 18790 Stream Gauge



Trib 18790 Downstream View



MP-3-5 Stream Gauge



MP-3-5 Downstream View

APPENDIX B

STREAM FLOW ESTIMATE CALCULATIONS

APPENDIX B-1
MARCH 2022 STREAM FLOW ESTIMATE CALCULATIONS
MONTOUR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOUR, LLC
CEC PROJECT 132-065

Surface Water Sampling Point	Date Monitored	Stream Stage (in feet)	Stream Flow Estimate (in gpm)
ECC-1	3/10/2022	0.92	8,300
MCC-1	3/10/2022	0.66	1,300
CC-1	3/10/2022	1.68	7,100
CC-2	3/10/2022	1.44	5,400
CC-3	3/10/2022	1.08	9,400
CC-4	3/10/2022	1.88	25,700
Trib 18790	3/10/2022	0.42	10
Trib 18787 (1)	3/10/2022	1.38	700
Trib 18787 (2)	3/10/2022	1.54	1,500
Trib 18787 (3)	3/10/2022	1.34	2,100
Trib 18788	3/10/2022	0.66	200
MP-3-5	3/10/2022	1.00	100

Stream Name:		CC-2				Stream Name:		CC-2			
Sampling Date:		3/1/2022				Sampling Date:		3/10/2022			
Stream Stage (in feet):		1.35				Stream Stage (ft):		1.44			
CEC Project Number:		132-065.1302				Estimated Flow		12.12	cfs	5439.05	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.40	0.00	0.20	0.00	0.00	0.50	0.49	0.00	0.25	0.00	0.00
1.00	0.80	0.16	0.80	0.13	57.45	1.00	0.89	0.16	0.89	0.14	63.91
1.00	0.90	0.22	0.90	0.20	88.87	1.00	0.99	0.22	0.99	0.22	97.76
1.00	1.10	0.22	1.10	0.24	108.62	1.00	1.19	0.22	1.19	0.26	117.50
1.00	1.25	0.24	1.25	0.30	134.65	1.00	1.34	0.24	1.34	0.32	144.34
1.00	1.46	0.27	1.46	0.39	176.93	1.00	1.55	0.27	1.55	0.42	187.84
1.00	1.57	0.27	1.57	0.42	186.74	1.00	1.66	0.27	1.66	0.44	197.44
1.00	1.70	0.25	1.70	0.42	186.94	1.00	1.79	0.25	1.79	0.44	196.83
1.00	1.87	0.29	1.87	0.54	243.40	1.00	1.96	0.29	1.96	0.57	255.12
1.00	1.96	0.30	1.96	0.59	263.91	1.00	2.05	0.30	2.05	0.62	276.03
1.00	2.05	0.30	2.05	0.60	271.43	1.00	2.14	0.30	2.14	0.63	283.35
1.00	2.13	0.31	2.13	0.65	291.58	1.00	2.22	0.31	2.22	0.68	303.90
1.00	2.15	0.28	2.15	0.60	270.20	1.00	2.24	0.28	2.24	0.63	281.51
1.00	2.20	0.30	2.20	0.65	291.29	1.00	2.29	0.30	2.29	0.68	303.21
1.00	2.25	0.26	2.25	0.59	262.57	1.00	2.34	0.26	2.34	0.61	273.07
1.00	2.20	0.25	2.20	0.54	241.92	1.00	2.29	0.25	2.29	0.56	251.82
1.00	2.24	0.26	2.24	0.58	261.40	1.00	2.33	0.26	2.33	0.61	271.90
1.00	2.20	0.24	2.20	0.52	232.05	1.00	2.29	0.24	2.29	0.54	241.54
1.00	2.25	0.24	2.25	0.54	242.37	1.00	2.34	0.24	2.34	0.56	252.06
1.00	2.25	0.23	2.25	0.52	232.27	1.00	2.34	0.23	2.34	0.54	241.56
1.00	2.18	0.20	2.18	0.44	195.69	1.00	2.27	0.20	2.27	0.45	203.77
1.00	2.12	0.20	2.12	0.41	185.55	1.00	2.21	0.20	2.21	0.43	193.42
1.00	2.00	0.13	2.00	0.25	112.21	1.00	2.09	0.13	2.09	0.26	117.26
1.00	1.85	0.13	1.85	0.23	103.79	1.00	1.94	0.13	1.94	0.24	108.84
1.00	1.70	0.13	1.70	0.21	95.38	1.00	1.79	0.13	1.79	0.22	100.43
1.00	1.65	0.10	1.65	0.16	70.35	1.00	1.74	0.10	1.74	0.17	74.19
1.00	1.55	0.11	1.55	0.17	76.53	1.00	1.64	0.11	1.64	0.18	80.97
1.00	1.33	0.11	1.33	0.15	65.66	1.00	1.42	0.11	1.42	0.16	70.11
1.00	1.42	0.10	1.42	0.14	63.73	1.00	1.51	0.10	1.51	0.15	67.77
1.00	1.32	0.11	1.32	0.15	65.17	1.00	1.41	0.11	1.41	0.16	69.61
1.00	1.30	0.09	1.30	0.12	52.51	1.00	1.39	0.09	1.39	0.13	56.15
1.00	1.10	0.06	1.10	0.07	29.62	1.00	1.19	0.06	1.19	0.07	32.05
1.00	0.88	0.04	0.88	0.04	15.80	1.00	0.97	0.04	0.97	0.04	17.41
1.00	0.62	0.02	0.62	0.01	5.57	1.00	0.71	0.02	0.71	0.01	6.37
0.50	0.30	0.00	0.15	0.00	0.00	0.50	0.39	0.00	0.20	0.00	0.00
Total Discharge Rate =				11.55	5182.14	Total Discharge Rate =				12.12	5439.05

Total Width (ft) **34.00**

Average Depth (ft) **1.61**

Total Area (ft²) **55.90**

Total Width (ft) **34.00**

Average Depth (ft) **1.70**

Total Area (ft²) **58.96**

Stream Name:		CC-4				Stream Name:		CC-4			
Sampling Date:		3/2/2022				Sampling Date:		3/10/2022			
Stream Stage (in feet):		1.20				Stream Stage (ft):		1.88			
CEC Project Number:		132-065.1302				Estimated Flow		57.35	cfs	25738.68	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.86	0.30	0.43	0.13	57.90	0.50	1.54	0.30	0.77	0.23	103.68
1.00	1.15	0.42	1.15	0.48	216.79	1.00	1.83	0.42	1.83	0.77	344.97
1.00	1.48	0.52	1.48	0.77	345.42	1.00	2.16	0.52	2.16	1.12	504.13
1.00	1.80	0.42	1.80	0.76	339.32	1.00	2.48	0.42	2.48	1.04	467.50
1.00	1.98	0.26	1.98	0.51	231.06	1.00	2.66	0.26	2.66	0.69	310.41
1.00	2.05	0.33	2.05	0.68	303.63	1.00	2.73	0.33	2.73	0.90	404.35
1.00	1.96	0.54	1.96	1.05	470.64	1.00	2.64	0.54	2.64	1.41	633.93
1.00	1.95	0.76	1.95	1.48	665.17	1.00	2.63	0.76	2.63	2.00	897.12
1.00	1.89	0.69	1.89	1.29	581.08	1.00	2.57	0.69	2.57	1.76	790.14
1.00	1.78	0.82	1.78	1.46	655.11	1.00	2.46	0.82	2.46	2.02	905.38
1.00	1.75	0.74	1.75	1.29	577.31	1.00	2.43	0.74	2.43	1.79	801.63
1.00	1.71	0.88	1.71	1.50	671.56	1.00	2.39	0.88	2.39	2.09	938.62
1.00	1.69	0.93	1.69	1.56	701.64	1.00	2.37	0.93	2.37	2.19	983.95
1.00	1.69	0.98	1.69	1.66	743.35	1.00	2.37	0.98	2.37	2.32	1042.45
1.00	1.61	0.96	1.61	1.55	693.71	1.00	2.29	0.96	2.29	2.20	986.71
1.00	1.59	1.04	1.59	1.65	738.62	1.00	2.27	1.04	2.27	2.35	1054.51
1.00	1.57	1.10	1.57	1.73	775.13	1.00	2.25	1.10	2.25	2.48	1110.86
1.00	1.56	1.20	1.56	1.87	840.21	1.00	2.24	1.20	2.24	2.69	1206.46
1.00	1.50	1.11	1.50	1.67	747.30	1.00	2.18	1.11	2.18	2.42	1086.08
1.00	1.50	1.23	1.50	1.84	824.73	1.00	2.18	1.23	2.18	2.67	1198.60
1.00	1.48	1.18	1.48	1.75	783.84	1.00	2.16	1.18	2.16	2.55	1143.98
1.00	1.13	1.18	1.13	1.33	598.47	1.00	1.81	1.18	1.81	2.14	958.61
1.00	1.32	1.23	1.32	1.62	728.72	1.00	2.00	1.23	2.00	2.46	1104.12
1.00	1.31	1.08	1.31	1.41	635.01	1.00	1.99	1.08	1.99	2.15	964.63
1.00	1.21	1.20	1.21	1.45	651.70	1.00	1.89	1.20	1.89	2.27	1017.95
1.00	1.20	0.87	1.20	1.04	468.58	1.00	1.88	0.87	1.88	1.64	734.11
1.00	1.08	0.94	1.08	1.02	455.65	1.00	1.76	0.94	1.76	1.65	742.55
1.00	1.02	0.90	1.02	0.92	412.03	1.00	1.70	0.90	1.70	1.53	686.71
1.00	0.95	0.89	0.95	0.85	379.49	1.00	1.63	0.89	1.63	1.45	651.12
1.00	0.90	0.67	0.90	0.60	270.65	1.00	1.58	0.67	1.58	1.06	475.13
1.00	0.88	0.69	0.88	0.61	272.53	1.00	1.56	0.69	1.56	1.08	483.12
1.00	0.94	0.60	0.94	0.56	253.14	1.00	1.62	0.60	1.62	0.97	436.26
1.00	0.86	0.50	0.86	0.43	193.00	1.00	1.54	0.50	1.54	0.77	345.60
1.00	0.78	0.20	0.78	0.16	70.02	1.00	1.46	0.20	1.46	0.29	131.06
1.00	0.46	0.17	0.46	0.08	35.10	1.00	1.14	0.17	1.14	0.19	86.98
0.50	0.10	0.03	0.05	0.00	0.67	0.50	0.78	0.03	0.39	0.01	5.25
Total Discharge Rate =				38.74	17388.27	Total Discharge Rate =				57.35	25738.68

Total Width (ft) **35.00**

Average Depth (ft) **1.35**

Total Area (ft²) **48.21**

Total Width (ft) **35.00**

Average Depth (ft) **2.03**

Total Area (ft²) **72.01**

Stream Name:		MCC-1				Stream Name:		MCC-1			
Sampling Date:		3/1/2022				Sampling Date:		3/10/2022			
Stream Stage (in feet):		0.56				Stream Stage (ft):		0.66			
CEC Project Number:		132-065.1302				Estimated Flow		2.84 cfs		1272.58 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.05	0.25	0.01	0.00	1.41	0.25	0.15	0.25	0.04	0.01	4.22
0.50	0.05	0.25	0.03	0.01	2.81	0.50	0.15	0.25	0.08	0.02	8.44
0.50	0.10	0.65	0.05	0.03	14.59	0.50	0.20	0.65	0.10	0.07	29.17
0.50	0.15	1.25	0.08	0.09	42.08	0.50	0.25	1.25	0.13	0.16	70.13
0.50	0.20	0.77	0.10	0.08	34.56	0.50	0.30	0.77	0.15	0.12	51.84
0.50	0.20	1.18	0.10	0.12	52.96	0.50	0.30	1.18	0.15	0.18	79.44
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.35	1.32	0.18	0.23	103.68
0.50	0.30	1.41	0.15	0.21	94.93	0.50	0.40	1.41	0.20	0.28	126.57
0.50	0.40	1.47	0.20	0.29	131.96	0.50	0.50	1.47	0.25	0.37	164.95
0.50	0.30	1.34	0.15	0.20	90.22	0.50	0.40	1.34	0.20	0.27	120.29
0.50	0.30	1.33	0.15	0.20	89.54	0.50	0.40	1.33	0.20	0.27	119.39
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.35	1.32	0.18	0.23	103.68
0.50	0.25	1.51	0.13	0.19	84.72	0.50	0.35	1.51	0.18	0.26	118.60
0.50	0.20	1.41	0.10	0.14	63.29	0.50	0.30	1.41	0.15	0.21	94.93
0.50	0.15	0.86	0.08	0.06	28.95	0.50	0.25	0.86	0.13	0.11	48.25
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.15	0.19	0.08	0.01	6.44
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.15	0.19	0.08	0.01	6.44
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.15	0.19	0.08	0.01	6.44
0.25	0.05	0.19	0.01	0.00	1.07	0.25	0.15	0.19	0.04	0.01	3.22
Total Discharge Rate =				1.98	889.78	Total Discharge Rate =				2.84	1272.58

Total Width (ft) **9.50**

Average Depth (ft) **0.17**

Total Area (ft²) **1.68**

Total Width (ft) **9.50**

Average Depth (ft) **0.27**

Total Area (ft²) **2.63**

Stream Name:			ECC-1			Stream Name:			ECC-1			
Sampling Date:			3/2/2022			Sampling Date:			3/10/2022			
Stream Stage (in feet):			1.16			Stream Stage (ft):			0.92			
CEC Project Number:			132-065.1302			Estimated Flow			18.47	cfs	8289.28	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		
				(cfs)	(gpm)					(cfs)	(gpm)	
0.50	0.50	0.00	0.25	0.00	0.00	0.50	0.26	0.00	0.13	0.00	0.00	
1.00	0.97	0.02	0.97	0.02	8.71	1.00	0.73	0.02	0.73	0.01	6.55	
1.00	1.35	0.29	1.35	0.39	175.72	1.00	1.11	0.29	1.11	0.32	144.48	
1.00	1.15	0.77	1.15	0.89	397.44	1.00	0.91	0.77	0.91	0.70	314.50	
1.00	0.92	0.77	0.92	0.71	317.95	1.00	0.68	0.77	0.68	0.52	235.01	
1.00	1.45	0.62	1.45	0.90	403.50	1.00	1.21	0.62	1.21	0.75	336.71	
1.00	1.47	0.88	1.47	1.29	580.61	1.00	1.23	0.88	1.23	1.08	485.81	
1.00	1.40	1.00	1.40	1.40	628.36	1.00	1.16	1.00	1.16	1.16	520.64	
1.00	1.46	1.02	1.46	1.49	668.40	1.00	1.22	1.02	1.22	1.24	558.53	
1.00	1.45	1.04	1.45	1.51	676.84	1.00	1.21	1.04	1.21	1.26	564.81	
1.00	1.35	1.08	1.35	1.46	654.40	1.00	1.11	1.08	1.11	1.20	538.06	
1.00	1.35	0.94	1.35	1.27	569.57	1.00	1.11	0.94	1.11	1.04	468.31	
1.00	1.35	1.10	1.35	1.49	666.51	1.00	1.11	1.10	1.11	1.22	548.02	
1.00	1.48	0.94	1.48	1.39	624.41	1.00	1.24	0.94	1.24	1.17	523.16	
1.00	1.60	0.80	1.60	1.28	574.50	1.00	1.36	0.80	1.36	1.09	488.33	
1.00	1.50	0.86	1.50	1.28	575.63	1.00	1.26	0.86	1.26	1.08	483.53	
1.00	1.55	0.81	1.55	1.26	563.51	1.00	1.31	0.81	1.31	1.06	476.25	
1.00	1.40	0.80	1.40	1.12	502.69	1.00	1.16	0.80	1.16	0.93	416.52	
1.00	1.20	0.75	1.20	0.90	403.95	1.00	0.96	0.75	0.96	0.72	323.16	
1.00	1.18	0.59	1.18	0.70	312.48	1.00	0.94	0.59	0.94	0.55	248.92	
1.00	1.02	0.65	1.02	0.66	297.57	1.00	0.78	0.65	0.78	0.51	227.56	
1.00	0.82	0.60	0.82	0.49	220.82	1.00	0.58	0.60	0.58	0.35	156.19	
1.00	0.67	0.57	0.67	0.38	171.41	1.00	0.43	0.57	0.43	0.25	110.01	
1.00	0.56	0.51	0.56	0.29	128.19	1.00	0.32	0.51	0.32	0.16	73.25	
1.00	0.41	0.41	0.41	0.17	75.45	1.00	0.17	0.41	0.17	0.07	31.28	
1.00	0.30	0.36	0.30	0.11	48.47	1.00	0.06	0.36	0.06	0.02	9.69	
0.50	0.10	0.00	0.05	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	
Total Discharge Rate =				22.83	10247.08	Total Discharge Rate =				18.47	8289.28	

Total Width (ft) **26.00**

 Average Depth (ft) **1.11**

 Total Area (ft²) **29.66**

Total Width (ft) **25.50**

 Average Depth (ft) **0.91**

 Total Area (ft²) **23.49**

APPENDIX B-2
JUNE 2022 STREAM FLOW ESTIMATE CALCULATIONS
MONTOUR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOUR, LLC
CEC PROJECT 132-065

Surface Water Sampling Point	Date Monitored	Stream Stage (in feet)	Stream Flow Estimate (in gpm)
ECC-1	6/14/2022	0.34	3,800
MCC-1	6/14/2022	0.52	700
CC-1	6/14/2022	1.02	4,700
CC-2	6/14/2022	0.80	3,600
CC-3	6/14/2022	0.00	<2,500
CC-4	6/14/2022	0.00	<3,200
Trib 18790	6/14/2022	0.22	<5
Trib 18787 (1)	6/14/2022	0.36	100
Trib 18787 (2)	6/15/2022	0.10	100
Trib 18787 (3)	6/14/2022	0.70	900
Trib 18788	6/14/2022	0.32	100
MP-3-5	6/14/2022	0.90	100

Stream Name:		Trib 18787(1)				Stream Name:		Trib 18787(1)			
Sampling Date:		2/28/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		1.00				Stream Stage (ft):		0.36			
CEC Project Number:		132-065.1302				Estimated Flow		0.25	cfs	112.25	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.20	0.01	0.05	0.00	0.22	0.25	0.00	0.01	0.00	0.00	0.00
0.50	0.30	0.02	0.15	0.00	1.35	0.50	0.00	0.02	0.00	0.00	0.00
0.50	0.35	0.05	0.18	0.01	3.93	0.50	0.00	0.05	0.00	0.00	0.00
0.50	0.40	0.05	0.20	0.01	4.49	0.50	0.00	0.05	0.00	0.00	0.00
0.50	0.40	0.05	0.20	0.01	4.49	0.50	0.00	0.05	0.00	0.00	0.00
0.50	0.48	0.08	0.24	0.02	8.62	0.50	0.00	0.08	0.00	0.00	0.00
0.50	0.50	0.08	0.25	0.02	8.98	0.50	0.00	0.08	0.00	0.00	0.00
0.50	0.50	0.10	0.25	0.03	11.22	0.50	0.00	0.10	0.00	0.00	0.00
0.50	0.60	0.17	0.30	0.05	22.89	0.50	0.00	0.17	0.00	0.00	0.00
0.50	0.65	0.20	0.33	0.07	29.17	0.50	0.01	0.20	0.01	0.00	0.45
0.50	0.70	0.11	0.35	0.04	17.28	0.50	0.06	0.11	0.03	0.00	1.48
0.50	0.80	0.12	0.40	0.05	21.54	0.50	0.16	0.12	0.08	0.01	4.31
0.50	1.00	0.14	0.50	0.07	31.42	0.50	0.36	0.14	0.18	0.03	11.31
0.50	1.10	0.52	0.55	0.29	128.37	0.50	0.46	0.52	0.23	0.12	53.68
0.50	1.00	0.33	0.50	0.17	74.06	0.50	0.36	0.33	0.18	0.06	26.66
0.50	0.80	0.40	0.40	0.16	71.81	0.50	0.16	0.40	0.08	0.03	14.36
0.50	0.50	0.33	0.25	0.08	37.03	0.50	0.00	0.33	0.00	0.00	0.00
0.50	0.50	0.10	0.25	0.03	11.22	0.50	0.00	0.10	0.00	0.00	0.00
0.50	0.35	0.02	0.18	0.00	1.57	0.50	0.00	0.02	0.00	0.00	0.00
0.50	0.35	0.05	0.18	0.01	3.93	0.50	0.00	0.05	0.00	0.00	0.00
0.50	0.30	0.01	0.15	0.00	0.67	0.50	0.00	0.01	0.00	0.00	0.00
0.25	0.20	0.03	0.05	0.00	0.67	0.25	0.00	0.03	0.00	0.00	0.00
Total Discharge Rate =				1.10	494.93	Total Discharge Rate =				0.25	112.25

Total Width (ft) **10.50**

Average Depth (ft) **0.54**

Total Area (ft²) **5.89**

Total Width (ft) **3.50**

Average Depth (ft) **0.22**

Total Area (ft²) **0.79**

Stream Name:		Trib 18787(2)				Stream Name:		Trib 18787(2)			
Sampling Date:		2/28/2022				Sampling Date:		6/15/2022			
Stream Stage (in feet):		1.60				Stream Stage (ft):		0.10			
CEC Project Number:		132-065.1302				Estimated Flow		0.24 cfs		105.57 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.30	0.10	0.15	0.02	6.73	0.50	0.00	0.10	0.00	0.00	0.00
1.00	0.25	0.04	0.25	0.01	4.49	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.40	0.07	0.40	0.03	12.57	1.00	0.00	0.07	0.00	0.00	0.00
1.00	0.30	0.04	0.30	0.01	5.39	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.30	0.05	0.30	0.02	6.73	1.00	0.00	0.05	0.00	0.00	0.00
1.00	0.30	0.04	0.30	0.01	5.39	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.20	0.01	0.20	0.00	0.90	1.00	0.08	0.01	0.08	0.00	0.36
1.00	0.50	0.34	0.50	0.17	76.30	1.00	0.20	0.34	0.20	0.07	30.52
1.00	0.60	0.05	0.60	0.03	13.46	1.00	0.24	0.05	0.24	0.01	5.39
1.00	0.35	0.01	0.35	0.00	1.57	1.00	0.14	0.01	0.14	0.00	0.63
1.00	0.30	0.01	0.30	0.00	1.35	1.00	0.12	0.01	0.12	0.00	0.54
1.00	0.55	0.03	0.55	0.02	7.41	1.00	0.00	0.03	0.00	0.00	0.00
1.00	0.80	0.05	0.80	0.04	17.95	1.00	0.00	0.05	0.00	0.00	0.00
1.00	1.00	0.42	1.00	0.42	188.51	1.00	0.00	0.42	0.00	0.00	0.00
1.00	1.10	0.71	1.10	0.78	350.54	1.00	0.00	0.71	0.00	0.00	0.00
1.00	1.10	0.13	1.10	0.14	64.18	1.00	0.00	0.13	0.00	0.00	0.00
1.00	1.40	0.92	1.40	1.29	578.09	1.00	0.11	0.92	0.11	0.10	45.42
1.00	1.70	0.16	1.70	0.27	122.08	1.00	0.11	0.16	0.11	0.02	7.90
1.00	1.20	0.05	1.20	0.06	26.93	1.00	0.11	0.05	0.11	0.01	2.47
1.00	0.75	0.04	0.75	0.03	13.46	1.00	0.11	0.04	0.11	0.00	1.97
1.00	0.55	0.21	0.55	0.12	51.84	1.00	0.11	0.21	0.11	0.02	10.37
1.00	0.60	0.04	0.60	0.02	10.77	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.60	0.03	0.60	0.02	8.08	1.00	0.00	0.03	0.00	0.00	0.00
1.00	0.50	0.04	0.50	0.02	8.98	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.20	0.00	0.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.35	0.02	0.35	0.01	3.14	1.00	0.00	0.02	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				3.54	1586.84	Total Discharge Rate =				0.24	105.57

Total Width (ft) **26.00**
Average Depth (ft) **0.61**
Total Area (ft²) **16.15**

Total Width (ft) **1.33**
Average Depth (ft) **0.13**
Total Area (ft²) **1.33**

Stream Name:		Trib 18788				Stream Name:		Trib 18788			
Sampling Date:		2/28/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		0.60				Stream Stage (ft):		0.32			
CEC Project Number:		132-065.1302				Estimated Flow		0.26 cfs		118.47 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.20	0.02	0.10	0.00	0.74	0.50	0.00	0.02	0.00	0.00	0.00
1.00	0.50	0.02	0.50	0.01	3.70	1.00	0.22	0.02	0.22	0.00	1.63
1.00	0.60	0.02	0.60	0.01	4.44	1.00	0.32	0.02	0.32	0.01	2.37
1.00	1.10	0.02	1.10	0.02	8.15	1.00	0.82	0.02	0.82	0.01	6.07
1.00	1.00	0.02	1.00	0.02	7.41	1.00	0.72	0.02	0.72	0.01	5.33
1.00	1.00	0.02	1.00	0.02	7.41	1.00	0.72	0.02	0.72	0.01	5.33
1.00	1.40	0.02	1.40	0.02	10.37	1.00	1.12	0.02	1.12	0.02	8.29
1.00	1.10	0.02	1.10	0.02	8.15	1.00	0.82	0.02	0.82	0.01	6.07
1.00	1.00	0.02	1.00	0.02	7.70	1.00	0.72	0.02	0.72	0.01	5.55
1.00	0.90	0.02	0.90	0.02	6.93	1.00	0.62	0.02	0.62	0.01	4.78
1.00	0.93	0.02	0.93	0.02	7.16	1.00	0.65	0.02	0.65	0.01	5.01
1.00	1.00	0.02	1.00	0.02	7.70	1.00	0.72	0.02	0.72	0.01	5.55
1.00	0.80	0.02	0.80	0.01	6.16	1.00	0.52	0.02	0.52	0.01	4.01
1.00	1.10	0.02	1.10	0.02	8.47	1.00	0.82	0.02	0.82	0.01	6.32
1.00	1.20	0.02	1.20	0.02	9.24	1.00	0.92	0.02	0.92	0.02	7.09
1.00	1.10	0.02	1.10	0.02	8.47	1.00	0.82	0.02	0.82	0.01	6.32
1.00	0.92	0.02	0.92	0.02	7.09	1.00	0.64	0.02	0.64	0.01	4.93
1.00	1.00	0.02	1.00	0.02	8.59	1.00	0.72	0.02	0.72	0.01	6.19
1.00	1.00	0.02	1.00	0.02	8.59	1.00	0.72	0.02	0.72	0.01	6.19
1.00	1.00	0.02	1.00	0.02	8.59	1.00	0.72	0.02	0.72	0.01	6.19
1.00	1.10	0.02	1.10	0.02	9.45	1.00	0.82	0.02	0.82	0.02	7.04
1.00	0.89	0.02	0.89	0.02	7.65	1.00	0.61	0.02	0.61	0.01	5.24
1.00	0.61	0.02	0.61	0.01	5.24	1.00	0.33	0.02	0.33	0.01	2.83
1.00	0.30	0.02	0.30	0.01	2.58	1.00	0.02	0.02	0.02	0.00	0.17
0.50	0.10	0.02	0.05	0.00	0.43	0.50	0.00	0.02	0.00	0.00	0.00
Total Discharge Rate =				0.38	170.41	Total Discharge Rate =				0.26	118.47

Total Width (ft) **24.00**

Average Depth (ft) **0.87**

Total Area (ft²) **21.70**

Total Width (ft) **23.00**

Average Depth (ft) **0.66**

Total Area (ft²) **15.11**

Stream Name:		Trib 18790				Stream Name:		Trib 18790			
Sampling Date:		2/28/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		0.42				Stream Stage (ft):		0.22			
CEC Project Number:		132-065.1302				Estimated Flow		0.00 cfs		1.87 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.10	0.00	0.03	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
0.50	0.10	0.00	0.05	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
0.50	0.15	0.06	0.08	0.00	2.00	0.50	0.00	0.06	0.00	0.00	0.00
0.50	0.20	0.14	0.10	0.01	6.22	0.50	0.00	0.14	0.00	0.00	0.00
0.50	0.30	0.07	0.15	0.01	4.67	0.50	0.10	0.07	0.05	0.00	1.56
0.25	0.25	0.06	0.06	0.00	1.57	0.25	0.05	0.06	0.01	0.00	0.31
Total Discharge Rate =				0.03	14.46	Total Discharge Rate =				0.00	1.87

Total Width (ft) **2.50**

Average Depth (ft) **0.18**

Total Area (ft²) **0.46**

Total Width (ft) **1.25**

Average Depth (ft) **0.05**

Total Area (ft²) **0.06**

Stream Name:		MP-3-5				Stream Name:		MP-3-5			
Sampling Date:		3/2/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		1.20				Stream Stage (ft):		0.90			
CEC Project Number:		132-065.1302				Estimated Flow		0.23 cfs		105.31 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.50	0.01	0.50	0.00	1.48	1.00	0.20	0.01	0.20	0.00	0.59
1.00	0.65	0.00	0.65	0.00	0.00	1.00	0.35	0.00	0.35	0.00	0.00
1.00	0.55	0.00	0.55	0.00	0.00	1.00	0.25	0.00	0.25	0.00	0.00
1.00	0.90	0.03	0.90	0.03	13.33	1.00	0.60	0.03	0.60	0.02	8.89
1.00	0.70	0.01	0.70	0.00	2.07	1.00	0.40	0.01	0.40	0.00	1.18
1.00	0.60	0.02	0.60	0.01	5.33	1.00	0.30	0.02	0.30	0.01	2.67
1.00	0.65	0.03	0.65	0.02	9.63	1.00	0.35	0.03	0.35	0.01	5.18
1.00	0.46	0.04	0.46	0.02	8.18	1.00	0.16	0.04	0.16	0.01	2.84
1.00	0.35	0.05	0.35	0.02	7.26	1.00	0.05	0.05	0.05	0.00	1.04
1.00	0.45	0.05	0.45	0.02	10.66	1.00	0.15	0.05	0.15	0.01	3.55
1.00	0.38	0.07	0.38	0.03	12.38	1.00	0.08	0.07	0.08	0.01	2.61
1.00	0.50	0.08	0.50	0.04	17.77	1.00	0.20	0.08	0.20	0.02	7.11
1.00	0.80	0.10	0.80	0.08	35.55	1.00	0.50	0.10	0.50	0.05	22.22
1.00	0.80	0.08	0.80	0.06	28.44	1.00	0.50	0.08	0.50	0.04	17.77
1.00	0.70	0.08	0.70	0.06	24.88	1.00	0.40	0.08	0.40	0.03	14.22
1.00	0.65	0.01	0.65	0.01	3.85	1.00	0.35	0.01	0.35	0.00	2.07
1.00	0.60	0.02	0.60	0.01	5.33	1.00	0.30	0.02	0.30	0.01	2.67
1.00	0.55	0.03	0.55	0.02	8.15	1.00	0.25	0.03	0.25	0.01	3.70
1.00	0.45	0.03	0.45	0.01	6.67	1.00	0.15	0.03	0.15	0.00	2.22
1.00	0.49	0.05	0.49	0.02	10.16	1.00	0.19	0.05	0.19	0.01	3.94
0.50	0.38	0.05	0.19	0.01	3.94	0.50	0.08	0.05	0.04	0.00	0.83
Total Discharge Rate =				0.48	215.06	Total Discharge Rate =				0.23	105.31

Total Width (ft) **21.00**

Average Depth (ft) **0.56**

Total Area (ft²) **12.02**

Total Width (ft) **20.50**

Average Depth (ft) **0.28**

Total Area (ft²) **5.77**

Stream Name:			CC-1			Stream Name:			CC-1			
Sampling Date:			3/1/2022			Sampling Date:			6/14/2022			
Stream Stage (in feet):			1.58			Stream Stage (ft):			1.02			
CEC Project Number:			132-065.1302			Estimated Flow			10.56	cfs	4739.97	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		
				(cfs)	(gpm)					(cfs)	(gpm)	
1.00	0.67	0.00	0.67	0.00	0.00	1.00	0.11	0.00	0.11	0.00	0.00	
2.00	1.17	0.08	2.34	0.19	84.02	2.00	0.61	0.08	1.22	0.10	43.81	
2.00	1.60	0.02	3.20	0.05	21.54	2.00	1.04	0.02	2.08	0.03	14.00	
2.00	2.25	0.03	4.50	0.11	50.49	2.00	1.69	0.03	3.38	0.08	37.93	
2.00	2.35	0.00	4.70	0.00	0.00	2.00	1.79	0.00	3.58	0.00	0.00	
2.00	2.15	0.00	4.30	0.00	0.00	2.00	1.59	0.00	3.18	0.00	0.00	
2.00	2.15	0.04	4.30	0.15	67.55	2.00	1.59	0.04	3.18	0.11	49.95	
2.00	2.70	0.02	5.40	0.08	36.36	2.00	2.14	0.02	4.28	0.06	28.81	
2.00	2.72	0.09	5.44	0.46	207.54	2.00	2.16	0.09	4.32	0.37	164.81	
2.00	2.77	0.28	5.54	1.55	696.23	2.00	2.21	0.28	4.42	1.24	555.47	
2.00	3.00	0.28	6.00	1.65	740.57	2.00	2.44	0.28	4.88	1.34	602.33	
2.00	2.75	0.47	5.50	2.59	1160.23	2.00	2.19	0.47	4.38	2.06	923.96	
2.00	2.40	0.41	4.80	1.97	883.30	2.00	1.84	0.41	3.68	1.51	677.20	
2.00	2.10	0.25	4.20	1.05	471.27	2.00	1.54	0.25	3.08	0.77	345.60	
2.00	1.75	0.35	3.50	1.21	541.96	2.00	1.19	0.35	2.38	0.82	368.54	
2.00	1.50	0.21	3.00	0.63	282.76	2.00	0.94	0.21	1.88	0.39	177.20	
2.00	1.40	0.29	2.80	0.81	364.45	2.00	0.84	0.29	1.68	0.49	218.67	
2.00	1.27	0.37	2.54	0.94	421.81	2.00	0.71	0.37	1.42	0.53	235.82	
2.00	1.10	0.48	2.20	1.06	473.97	2.00	0.54	0.48	1.08	0.52	232.67	
2.00	0.78	0.32	1.56	0.50	224.06	2.00	0.22	0.32	0.44	0.14	63.20	
1.00	0.40	0.07	0.40	0.03	12.57	1.00	0.00	0.07	0.00	0.00	0.00	
Total Discharge Rate =				15.02	6740.68	Total Discharge Rate =				10.56	4739.97	

Total Width (ft) **40.00**
Average Depth (ft) **1.86**
Total Area (ft²) **76.89**

Total Width (ft) **39.00**
Average Depth (ft) **1.37**
Total Area (ft²) **54.65**

Stream Name:		CC-2				Stream Name:		CC-2			
Sampling Date:		3/1/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		1.35				Stream Stage (ft):		0.80			
CEC Project Number:		132-065.1302				Estimated Flow		8.05	cfs	3612.12	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.40	0.00	0.20	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.80	0.16	0.80	0.13	57.45	1.00	0.25	0.16	0.25	0.04	17.95
1.00	0.90	0.22	0.90	0.20	88.87	1.00	0.35	0.22	0.35	0.08	34.56
1.00	1.10	0.22	1.10	0.24	108.62	1.00	0.55	0.22	0.55	0.12	54.31
1.00	1.25	0.24	1.25	0.30	134.65	1.00	0.70	0.24	0.70	0.17	75.40
1.00	1.46	0.27	1.46	0.39	176.93	1.00	0.91	0.27	0.91	0.25	110.28
1.00	1.57	0.27	1.57	0.42	186.74	1.00	1.02	0.27	1.02	0.27	121.32
1.00	1.70	0.25	1.70	0.42	186.94	1.00	1.15	0.25	1.15	0.28	126.46
1.00	1.87	0.29	1.87	0.54	243.40	1.00	1.32	0.29	1.32	0.38	171.81
1.00	1.96	0.30	1.96	0.59	263.91	1.00	1.41	0.30	1.41	0.42	189.86
1.00	2.05	0.30	2.05	0.60	271.43	1.00	1.50	0.30	1.50	0.44	198.61
1.00	2.13	0.31	2.13	0.65	291.58	1.00	1.58	0.31	1.58	0.48	216.29
1.00	2.15	0.28	2.15	0.60	270.20	1.00	1.60	0.28	1.60	0.45	201.08
1.00	2.20	0.30	2.20	0.65	291.29	1.00	1.65	0.30	1.65	0.49	218.47
1.00	2.25	0.26	2.25	0.59	262.57	1.00	1.70	0.26	1.70	0.44	198.38
1.00	2.20	0.25	2.20	0.54	241.92	1.00	1.65	0.25	1.65	0.40	181.44
1.00	2.24	0.26	2.24	0.58	261.40	1.00	1.69	0.26	1.69	0.44	197.22
1.00	2.20	0.24	2.20	0.52	232.05	1.00	1.65	0.24	1.65	0.39	174.03
1.00	2.25	0.24	2.25	0.54	242.37	1.00	1.70	0.24	1.70	0.41	183.12
1.00	2.25	0.23	2.25	0.52	232.27	1.00	1.70	0.23	1.70	0.39	175.49
1.00	2.18	0.20	2.18	0.44	195.69	1.00	1.63	0.20	1.63	0.33	146.32
1.00	2.12	0.20	2.12	0.41	185.55	1.00	1.57	0.20	1.57	0.31	137.41
1.00	2.00	0.13	2.00	0.25	112.21	1.00	1.45	0.13	1.45	0.18	81.35
1.00	1.85	0.13	1.85	0.23	103.79	1.00	1.30	0.13	1.30	0.16	72.94
1.00	1.70	0.13	1.70	0.21	95.38	1.00	1.15	0.13	1.15	0.14	64.52
1.00	1.65	0.10	1.65	0.16	70.35	1.00	1.10	0.10	1.10	0.10	46.90
1.00	1.55	0.11	1.55	0.17	76.53	1.00	1.00	0.11	1.00	0.11	49.37
1.00	1.33	0.11	1.33	0.15	65.66	1.00	0.78	0.11	0.78	0.09	38.51
1.00	1.42	0.10	1.42	0.14	63.73	1.00	0.87	0.10	0.87	0.09	39.05
1.00	1.32	0.11	1.32	0.15	65.17	1.00	0.77	0.11	0.77	0.08	38.02
1.00	1.30	0.09	1.30	0.12	52.51	1.00	0.75	0.09	0.75	0.07	30.30
1.00	1.10	0.06	1.10	0.07	29.62	1.00	0.55	0.06	0.55	0.03	14.81
1.00	0.88	0.04	0.88	0.04	15.80	1.00	0.33	0.04	0.33	0.01	5.92
1.00	0.62	0.02	0.62	0.01	5.57	1.00	0.07	0.02	0.07	0.00	0.63
0.50	0.30	0.00	0.15	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				11.55	5182.14	Total Discharge Rate =				8.05	3612.12

Total Width (ft) **34.00**

Average Depth (ft) **1.61**

Total Area (ft²) **55.90**

Total Width (ft) **34.00**

Average Depth (ft) **1.13**

Total Area (ft²) **37.40**

Stream Name:		CC-3				Stream Name:		CC-3			
Sampling Date:		3/1/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		0.96				Stream Stage (ft):		0.00			
CEC Project Number:		132-065.1302				Estimated Flow		7.38	cfs	3310.15	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.35	0.00	0.18	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.58	0.00	0.58	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.71	0.00	0.71	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.90	0.00	0.90	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.70	0.00	0.70	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	1.22	0.31	1.22	0.38	169.75	1.00	0.26	0.31	0.26	0.08	36.18
1.00	1.72	0.64	1.72	1.09	490.21	1.00	0.76	0.64	0.76	0.48	216.61
1.00	2.00	0.81	2.00	1.61	722.62	1.00	1.04	0.81	1.04	0.84	375.76
1.00	2.00	0.68	2.00	1.35	605.92	1.00	1.04	0.68	1.04	0.70	315.08
1.00	1.95	0.77	1.95	1.50	673.92	1.00	0.99	0.77	0.99	0.76	342.14
1.00	1.50	0.85	1.50	1.28	572.26	1.00	0.54	0.85	0.54	0.46	206.01
1.00	1.80	0.84	1.80	1.51	678.63	1.00	0.84	0.84	0.84	0.71	316.70
1.00	1.70	0.85	1.70	1.44	644.75	1.00	0.74	0.85	0.74	0.63	280.65
1.00	1.60	0.95	1.60	1.52	682.22	1.00	0.64	0.95	0.64	0.61	272.89
1.00	1.55	1.15	1.55	1.77	796.56	1.00	0.59	1.15	0.59	0.68	303.21
1.00	1.40	1.00	1.40	1.40	628.36	1.00	0.44	1.00	0.44	0.44	197.49
1.00	1.33	0.96	1.33	1.28	573.07	1.00	0.37	0.96	0.37	0.36	159.42
1.00	1.25	0.91	1.25	1.14	510.55	1.00	0.29	0.91	0.29	0.26	118.45
1.00	1.25	0.92	1.25	1.15	516.16	1.00	0.29	0.92	0.29	0.27	119.75
1.00	1.18	0.39	1.18	0.46	206.55	1.00	0.22	0.39	0.22	0.09	38.51
1.00	1.03	0.36	1.03	0.37	166.43	1.00	0.07	0.36	0.07	0.03	11.31
1.00	0.90	0.06	0.90	0.05	24.24	1.00	0.00	0.06	0.00	0.00	0.00
1.00	0.80	0.03	0.80	0.02	10.77	1.00	0.00	0.03	0.00	0.00	0.00
1.00	0.75	0.06	0.75	0.05	20.20	1.00	0.00	0.06	0.00	0.00	0.00
1.00	0.65	0.00	0.65	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.50	0.00	0.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.44	0.00	0.44	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.40	0.00	0.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.27	0.00	0.27	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				19.37	8693.16	Total Discharge Rate =				7.38	3310.15

Total Width (ft) **30.00**

Average Depth (ft) **1.07**

Total Area (ft²) **32.96**

Total Width (ft) **16.00**

Average Depth (ft) **0.57**

Total Area (ft²) **9.12**

Stream Name:		CC-4				Stream Name:		CC-4			
Sampling Date:		3/2/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		1.20				Stream Stage (ft):		0.00			
CEC Project Number:		132-065.1302				Estimated Flow		7.54	cfs	3382.05	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.86	0.30	0.43	0.13	57.90	0.50	0.00	0.30	0.00	0.00	0.00
1.00	1.15	0.42	1.15	0.48	216.79	1.00	0.00	0.42	0.00	0.00	0.00
1.00	1.48	0.52	1.48	0.77	345.42	1.00	0.28	0.52	0.28	0.15	65.35
1.00	1.80	0.42	1.80	0.76	339.32	1.00	0.60	0.42	0.60	0.25	113.11
1.00	1.98	0.26	1.98	0.51	231.06	1.00	0.78	0.26	0.78	0.20	91.02
1.00	2.05	0.33	2.05	0.68	303.63	1.00	0.85	0.33	0.85	0.28	125.90
1.00	1.96	0.54	1.96	1.05	470.64	1.00	0.76	0.54	0.76	0.41	182.49
1.00	1.95	0.76	1.95	1.48	665.17	1.00	0.75	0.76	0.75	0.57	255.83
1.00	1.89	0.69	1.89	1.29	581.08	1.00	0.69	0.69	0.69	0.47	212.14
1.00	1.78	0.82	1.78	1.46	655.11	1.00	0.58	0.82	0.58	0.48	213.46
1.00	1.75	0.74	1.75	1.29	577.31	1.00	0.55	0.74	0.55	0.40	181.44
1.00	1.71	0.88	1.71	1.50	671.56	1.00	0.51	0.88	0.51	0.45	200.29
1.00	1.69	0.93	1.69	1.56	701.64	1.00	0.49	0.93	0.49	0.45	203.43
1.00	1.69	0.98	1.69	1.66	743.35	1.00	0.49	0.98	0.49	0.48	215.53
1.00	1.61	0.96	1.61	1.55	693.71	1.00	0.41	0.96	0.41	0.39	176.66
1.00	1.59	1.04	1.59	1.65	738.62	1.00	0.39	1.04	0.39	0.40	181.17
1.00	1.57	1.10	1.57	1.73	775.13	1.00	0.37	1.10	0.37	0.41	182.67
1.00	1.56	1.20	1.56	1.87	840.21	1.00	0.36	1.20	0.36	0.43	193.89
1.00	1.50	1.11	1.50	1.67	747.30	1.00	0.30	1.11	0.30	0.33	149.46
1.00	1.50	1.23	1.50	1.84	824.73	1.00	0.30	1.23	0.30	0.37	164.95
1.00	1.48	1.18	1.48	1.75	783.84	1.00	0.28	1.18	0.28	0.33	148.29
1.00	1.13	1.18	1.13	1.33	598.47	1.00	0.00	1.18	0.00	0.00	0.00
1.00	1.32	1.23	1.32	1.62	728.72	1.00	0.12	1.23	0.12	0.15	66.25
1.00	1.31	1.08	1.31	1.41	635.01	1.00	0.11	1.08	0.11	0.12	53.32
1.00	1.21	1.20	1.21	1.45	651.70	1.00	0.01	1.20	0.01	0.01	5.39
1.00	1.20	0.87	1.20	1.04	468.58	1.00	0.00	0.87	0.00	0.00	0.00
1.00	1.08	0.94	1.08	1.02	455.65	1.00	0.00	0.94	0.00	0.00	0.00
1.00	1.02	0.90	1.02	0.92	412.03	1.00	0.00	0.90	0.00	0.00	0.00
1.00	0.95	0.89	0.95	0.85	379.49	1.00	0.00	0.89	0.00	0.00	0.00
1.00	0.90	0.67	0.90	0.60	270.65	1.00	0.00	0.67	0.00	0.00	0.00
1.00	0.88	0.69	0.88	0.61	272.53	1.00	0.00	0.69	0.00	0.00	0.00
1.00	0.94	0.60	0.94	0.56	253.14	1.00	0.00	0.60	0.00	0.00	0.00
1.00	0.86	0.50	0.86	0.43	193.00	1.00	0.00	0.50	0.00	0.00	0.00
1.00	0.78	0.20	0.78	0.16	70.02	1.00	0.00	0.20	0.00	0.00	0.00
1.00	0.46	0.17	0.46	0.08	35.10	1.00	0.00	0.17	0.00	0.00	0.00
0.50	0.10	0.03	0.05	0.00	0.67	0.50	0.00	0.03	0.00	0.00	0.00
Total Discharge Rate =				38.74	17388.27	Total Discharge Rate =				7.54	3382.05

Total Width (ft) **35.00**
Average Depth (ft) **1.35**
Total Area (ft²) **48.21**

Total Width (ft) **22.00**
Average Depth (ft) **0.45**
Total Area (ft²) **9.98**

Stream Name:		MCC-1				Stream Name:		MCC-1			
Sampling Date:		3/1/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		0.56				Stream Stage (ft):		0.52			
CEC Project Number:		132-065.1302				Estimated Flow		1.64 cfs		736.66 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.05	0.25	0.01	0.00	1.41	0.25	0.01	0.25	0.00	0.00	0.28
0.50	0.05	0.25	0.03	0.01	2.81	0.50	0.01	0.25	0.00	0.00	0.56
0.50	0.10	0.65	0.05	0.03	14.59	0.50	0.06	0.65	0.03	0.02	8.75
0.50	0.15	1.25	0.08	0.09	42.08	0.50	0.11	1.25	0.06	0.07	30.86
0.50	0.20	0.77	0.10	0.08	34.56	0.50	0.16	0.77	0.08	0.06	27.65
0.50	0.20	1.18	0.10	0.12	52.96	0.50	0.16	1.18	0.08	0.09	42.37
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.21	1.32	0.11	0.14	62.21
0.50	0.30	1.41	0.15	0.21	94.93	0.50	0.26	1.41	0.13	0.18	82.27
0.50	0.40	1.47	0.20	0.29	131.96	0.50	0.36	1.47	0.18	0.26	118.76
0.50	0.30	1.34	0.15	0.20	90.22	0.50	0.26	1.34	0.13	0.17	78.19
0.50	0.30	1.33	0.15	0.20	89.54	0.50	0.26	1.33	0.13	0.17	77.60
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.21	1.32	0.11	0.14	62.21
0.50	0.25	1.51	0.13	0.19	84.72	0.50	0.21	1.51	0.11	0.16	71.16
0.50	0.20	1.41	0.10	0.14	63.29	0.50	0.16	1.41	0.08	0.11	50.63
0.50	0.15	0.86	0.08	0.06	28.95	0.50	0.11	0.86	0.06	0.05	21.23
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.01	0.19	0.00	0.00	0.43
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.01	0.19	0.00	0.00	0.43
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.01	0.19	0.00	0.00	0.43
0.25	0.05	0.19	0.01	0.00	1.07	0.25	0.01	0.19	0.00	0.00	0.21
Total Discharge Rate =				1.98	889.78	Total Discharge Rate =				1.64	736.66

Total Width (ft) **9.50**

Average Depth (ft) **0.17**

Total Area (ft²) **1.68**

Total Width (ft) **9.50**

Average Depth (ft) **0.13**

Total Area (ft²) **1.30**

Stream Name:		ECC-1				Stream Name:		ECC-1			
Sampling Date:		3/2/2022				Sampling Date:		6/14/2022			
Stream Stage (in feet):		1.16				Stream Stage (ft):		0.34			
CEC Project Number:		132-065.1302				Estimated Flow		8.50 cfs		3815.29 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.50	0.00	0.25	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.97	0.02	0.97	0.02	8.71	1.00	0.15	0.02	0.15	0.00	1.35
1.00	1.35	0.29	1.35	0.39	175.72	1.00	0.53	0.29	0.53	0.15	68.99
1.00	1.15	0.77	1.15	0.89	397.44	1.00	0.33	0.77	0.33	0.25	114.05
1.00	0.92	0.77	0.92	0.71	317.95	1.00	0.10	0.77	0.10	0.08	34.56
1.00	1.45	0.62	1.45	0.90	403.50	1.00	0.63	0.62	0.63	0.39	175.31
1.00	1.47	0.88	1.47	1.29	580.61	1.00	0.65	0.88	0.65	0.57	256.73
1.00	1.40	1.00	1.40	1.40	628.36	1.00	0.58	1.00	0.58	0.58	260.32
1.00	1.46	1.02	1.46	1.49	668.40	1.00	0.64	1.02	0.64	0.65	293.00
1.00	1.45	1.04	1.45	1.51	676.84	1.00	0.63	1.04	0.63	0.66	294.07
1.00	1.35	1.08	1.35	1.46	654.40	1.00	0.53	1.08	0.53	0.57	256.91
1.00	1.35	0.94	1.35	1.27	569.57	1.00	0.53	0.94	0.53	0.50	223.61
1.00	1.35	1.10	1.35	1.49	666.51	1.00	0.53	1.10	0.53	0.58	261.67
1.00	1.48	0.94	1.48	1.39	624.41	1.00	0.66	0.94	0.66	0.62	278.45
1.00	1.60	0.80	1.60	1.28	574.50	1.00	0.78	0.80	0.78	0.62	280.07
1.00	1.50	0.86	1.50	1.28	575.63	1.00	0.68	0.86	0.68	0.58	260.95
1.00	1.55	0.81	1.55	1.26	563.51	1.00	0.73	0.81	0.73	0.59	265.39
1.00	1.40	0.80	1.40	1.12	502.69	1.00	0.58	0.80	0.58	0.46	208.26
1.00	1.20	0.75	1.20	0.90	403.95	1.00	0.38	0.75	0.38	0.29	127.92
1.00	1.18	0.59	1.18	0.70	312.48	1.00	0.36	0.59	0.36	0.21	95.33
1.00	1.02	0.65	1.02	0.66	297.57	1.00	0.20	0.65	0.20	0.13	58.35
1.00	0.82	0.60	0.82	0.49	220.82	1.00	0.00	0.60	0.00	0.00	0.00
1.00	0.67	0.57	0.67	0.38	171.41	1.00	0.00	0.57	0.00	0.00	0.00
1.00	0.56	0.51	0.56	0.29	128.19	1.00	0.00	0.51	0.00	0.00	0.00
1.00	0.41	0.41	0.41	0.17	75.45	1.00	0.00	0.41	0.00	0.00	0.00
1.00	0.30	0.36	0.30	0.11	48.47	1.00	0.00	0.36	0.00	0.00	0.00
0.50	0.10	0.00	0.05	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				22.83	10247.08	Total Discharge Rate =				8.50	3815.29

Total Width (ft) **26.00**
Average Depth (ft) **1.11**
Total Area (ft²) **29.66**

Total Width (ft) **21.00**
Average Depth (ft) **0.49**
Total Area (ft²) **10.20**

APPENDIX B-3
SEPTEMBER 2022 STREAM FLOW ESTIMATE CALCULATIONS
MONTOUR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOUR, LLC
CEC PROJECT 132-065

Surface Water Sampling Point	Date Monitored	Stream Stage (in feet)	Stream Flow Estimate (in gpm)
ECC-1	9/23/2022	0.54	5,300
MCC-1	9/23/2022	0.64	1,200
CC-1	9/23/2022	1.36	6,000
CC-2	9/23/2022	1.12	4,500
CC-3	9/23/2022	0.00	<3,000
CC-4	9/23/2022	0.22	5,500
Trib 18790	9/23/2022	0.26	<5
Trib 18787 (1)	9/21/2022	0.22	100
Trib 18787 (2)	9/21/2022	0.00	<10
Trib 18787 (3)	9/21/2022	0.54	700
Trib 18788	9/21/2022	0.44	100
MP-3-5	9/27/2022	0.98	100

Stream Name:		MP-3-5				Stream Name:		MP-3-5			
Sampling Date:		3/2/2022				Sampling Date:		9/27/2022			
Stream Stage (in feet):		1.20				Stream Stage (ft):		0.98			
CEC Project Number:		132-065.1302				Estimated Flow		0.30 cfs		134.58 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.50	0.01	0.50	0.00	1.48	1.00	0.28	0.01	0.28	0.00	0.83
1.00	0.65	0.00	0.65	0.00	0.00	1.00	0.43	0.00	0.43	0.00	0.00
1.00	0.55	0.00	0.55	0.00	0.00	1.00	0.33	0.00	0.33	0.00	0.00
1.00	0.90	0.03	0.90	0.03	13.33	1.00	0.68	0.03	0.68	0.02	10.07
1.00	0.70	0.01	0.70	0.00	2.07	1.00	0.48	0.01	0.48	0.00	1.42
1.00	0.60	0.02	0.60	0.01	5.33	1.00	0.38	0.02	0.38	0.01	3.38
1.00	0.65	0.03	0.65	0.02	9.63	1.00	0.43	0.03	0.43	0.01	6.37
1.00	0.46	0.04	0.46	0.02	8.18	1.00	0.24	0.04	0.24	0.01	4.27
1.00	0.35	0.05	0.35	0.02	7.26	1.00	0.13	0.05	0.13	0.01	2.70
1.00	0.45	0.05	0.45	0.02	10.66	1.00	0.23	0.05	0.23	0.01	5.45
1.00	0.38	0.07	0.38	0.03	12.38	1.00	0.16	0.07	0.16	0.01	5.21
1.00	0.50	0.08	0.50	0.04	17.77	1.00	0.28	0.08	0.28	0.02	9.95
1.00	0.80	0.10	0.80	0.08	35.55	1.00	0.58	0.10	0.58	0.06	25.77
1.00	0.80	0.08	0.80	0.06	28.44	1.00	0.58	0.08	0.58	0.05	20.62
1.00	0.70	0.08	0.70	0.06	24.88	1.00	0.48	0.08	0.48	0.04	17.06
1.00	0.65	0.01	0.65	0.01	3.85	1.00	0.43	0.01	0.43	0.01	2.55
1.00	0.60	0.02	0.60	0.01	5.33	1.00	0.38	0.02	0.38	0.01	3.38
1.00	0.55	0.03	0.55	0.02	8.15	1.00	0.33	0.03	0.33	0.01	4.89
1.00	0.45	0.03	0.45	0.01	6.67	1.00	0.23	0.03	0.23	0.01	3.41
1.00	0.49	0.05	0.49	0.02	10.16	1.00	0.27	0.05	0.27	0.01	5.60
0.50	0.38	0.05	0.19	0.01	3.94	0.50	0.16	0.05	0.08	0.00	1.66
Total Discharge Rate =				0.48	215.06	Total Discharge Rate =				0.30	134.58

Total Width (ft) **21.00**

Average Depth (ft) **0.56**

Total Area (ft²) **12.02**

Total Width (ft) **20.50**

Average Depth (ft) **0.36**

Total Area (ft²) **7.41**

Stream Name:			Trib 18787(1)			Stream Name:			Trib 18787(1)			
Sampling Date:			2/28/2022			Sampling Date:			9/21/2022			
Stream Stage (in feet):			1.00			Stream Stage (ft):			0.22			
CEC Project Number:			132-065.1302			Estimated Flow			0.14	cfs	62.88	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		
				(cfs)	(gpm)					(cfs)	(gpm)	
0.25	0.20	0.01	0.05	0.00	0.22	0.25	0.00	0.01	0.00	0.00	0.00	
0.50	0.30	0.02	0.15	0.00	1.35	0.50	0.00	0.02	0.00	0.00	0.00	
0.50	0.35	0.05	0.18	0.01	3.93	0.50	0.00	0.05	0.00	0.00	0.00	
0.50	0.40	0.05	0.20	0.01	4.49	0.50	0.00	0.05	0.00	0.00	0.00	
0.50	0.40	0.05	0.20	0.01	4.49	0.50	0.00	0.05	0.00	0.00	0.00	
0.50	0.48	0.08	0.24	0.02	8.62	0.50	0.00	0.08	0.00	0.00	0.00	
0.50	0.50	0.08	0.25	0.02	8.98	0.50	0.00	0.08	0.00	0.00	0.00	
0.50	0.50	0.10	0.25	0.03	11.22	0.50	0.00	0.10	0.00	0.00	0.00	
0.50	0.60	0.17	0.30	0.05	22.89	0.50	0.00	0.17	0.00	0.00	0.00	
0.50	0.65	0.20	0.33	0.07	29.17	0.50	0.00	0.20	0.00	0.00	0.00	
0.50	0.70	0.11	0.35	0.04	17.28	0.50	0.00	0.11	0.00	0.00	0.00	
0.50	0.80	0.12	0.40	0.05	21.54	0.50	0.02	0.12	0.01	0.00	0.54	
0.50	1.00	0.14	0.50	0.07	31.42	0.50	0.22	0.14	0.11	0.02	6.91	
0.50	1.10	0.52	0.55	0.29	128.37	0.50	0.32	0.52	0.16	0.08	37.34	
0.50	1.00	0.33	0.50	0.17	74.06	0.50	0.22	0.33	0.11	0.04	16.29	
0.50	0.80	0.40	0.40	0.16	71.81	0.50	0.02	0.40	0.01	0.00	1.80	
0.50	0.50	0.33	0.25	0.08	37.03	0.50	0.00	0.33	0.00	0.00	0.00	
0.50	0.50	0.10	0.25	0.03	11.22	0.50	0.00	0.10	0.00	0.00	0.00	
0.50	0.35	0.02	0.18	0.00	1.57	0.50	0.00	0.02	0.00	0.00	0.00	
0.50	0.35	0.05	0.18	0.01	3.93	0.50	0.00	0.05	0.00	0.00	0.00	
0.50	0.30	0.01	0.15	0.00	0.67	0.50	0.00	0.01	0.00	0.00	0.00	
0.25	0.20	0.03	0.05	0.00	0.67	0.25	0.00	0.03	0.00	0.00	0.00	
Total Discharge Rate =				1.10	494.93	Total Discharge Rate =				0.14	62.88	

Total Width (ft) **10.50**

Average Depth (ft) **0.54**

Total Area (ft²) **5.89**

Total Width (ft) **2.50**

Average Depth (ft) **0.16**

Total Area (ft²) **0.40**

Stream Name:		Trib 18787(2)				Stream Name:		Trib 18787(2)			
Sampling Date:		2/28/2022				Sampling Date:		9/21/2022			
Stream Stage (in feet):		1.60				Stream Stage (ft):		0.00			
CEC Project Number:		132-065.1302				Estimated Flow		0.02 cfs		7.18 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.30	0.10	0.15	0.02	6.73	0.50	0.00	0.10	0.00	0.00	0.00
1.00	0.25	0.04	0.25	0.01	4.49	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.40	0.07	0.40	0.03	12.57	1.00	0.00	0.07	0.00	0.00	0.00
1.00	0.30	0.04	0.30	0.01	5.39	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.30	0.05	0.30	0.02	6.73	1.00	0.00	0.05	0.00	0.00	0.00
1.00	0.30	0.04	0.30	0.01	5.39	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.20	0.01	0.20	0.00	0.90	1.00	0.00	0.01	0.00	0.00	0.00
1.00	0.50	0.34	0.50	0.17	76.30	1.00	0.00	0.34	0.00	0.00	0.00
1.00	0.60	0.05	0.60	0.03	13.46	1.00	0.00	0.05	0.00	0.00	0.00
1.00	0.35	0.01	0.35	0.00	1.57	1.00	0.00	0.01	0.00	0.00	0.00
1.00	0.30	0.01	0.30	0.00	1.35	1.00	0.00	0.01	0.00	0.00	0.00
1.00	0.55	0.03	0.55	0.02	7.41	1.00	0.00	0.03	0.00	0.00	0.00
1.00	0.80	0.05	0.80	0.04	17.95	1.00	0.00	0.05	0.00	0.00	0.00
1.00	1.00	0.42	1.00	0.42	188.51	1.00	0.00	0.42	0.00	0.00	0.00
1.00	1.10	0.71	1.10	0.78	350.54	1.00	0.00	0.71	0.00	0.00	0.00
1.00	1.10	0.13	1.10	0.14	64.18	1.00	0.00	0.13	0.00	0.00	0.00
1.00	1.40	0.92	1.40	1.29	578.09	1.00	0.00	0.92	0.00	0.00	0.00
1.00	1.70	0.16	1.70	0.27	122.08	1.00	0.10	0.16	0.10	0.02	7.18
1.00	1.20	0.05	1.20	0.06	26.93	1.00	0.00	0.05	0.00	0.00	0.00
1.00	0.75	0.04	0.75	0.03	13.46	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.55	0.21	0.55	0.12	51.84	1.00	0.00	0.21	0.00	0.00	0.00
1.00	0.60	0.04	0.60	0.02	10.77	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.60	0.03	0.60	0.02	8.08	1.00	0.00	0.03	0.00	0.00	0.00
1.00	0.50	0.04	0.50	0.02	8.98	1.00	0.00	0.04	0.00	0.00	0.00
1.00	0.20	0.00	0.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.35	0.02	0.35	0.01	3.14	1.00	0.00	0.02	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				3.54	1586.84	Total Discharge Rate =				0.02	7.18

Total Width (ft) **26.00**

Average Depth (ft) **0.61**

Total Area (ft²) **16.15**

Total Width (ft) **1.00**

Average Depth (ft) **0.10**

Total Area (ft²) **0.10**

Stream Name:		Trib 18787(3)				Stream Name:		Trib 18787(3)			
Sampling Date:		2/28/2022				Sampling Date:		9/21/2022			
Stream Stage (in feet):		1.36				Stream Stage (ft):		0.54			
CEC Project Number:		132-065.1302				Estimated Flow		1.50 cfs		674.46 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.15	0.00	0.04	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
0.50	0.25	0.00	0.13	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.01	0.10	0.00	0.45	0.50	0.00	0.01	0.00	0.00	0.00
0.50	0.40	0.18	0.20	0.04	16.16	0.50	0.00	0.18	0.00	0.00	0.00
0.50	0.50	0.20	0.25	0.05	22.44	0.50	0.00	0.20	0.00	0.00	0.00
0.50	0.65	0.23	0.33	0.07	33.55	0.50	0.00	0.23	0.00	0.00	0.00
0.50	0.65	0.34	0.33	0.11	49.60	0.50	0.00	0.34	0.00	0.00	0.00
0.50	0.80	0.42	0.40	0.17	75.40	0.50	0.00	0.42	0.00	0.00	0.00
0.50	0.85	0.50	0.43	0.21	95.38	0.50	0.03	0.50	0.02	0.01	3.37
0.50	0.95	0.64	0.48	0.30	136.44	0.50	0.13	0.64	0.06	0.04	18.67
0.50	1.36	0.73	0.68	0.50	222.80	0.50	0.54	0.73	0.27	0.20	88.46
0.50	1.30	0.96	0.65	0.62	280.07	0.50	0.48	0.96	0.24	0.23	103.41
0.50	1.40	0.94	0.70	0.66	295.33	0.50	0.58	0.94	0.29	0.27	122.35
0.50	1.40	1.00	0.70	0.70	314.18	0.50	0.58	1.00	0.29	0.29	130.16
0.50	1.45	0.82	0.73	0.59	266.83	0.50	0.63	0.82	0.32	0.26	115.93
0.50	1.25	0.76	0.63	0.48	213.19	0.50	0.43	0.76	0.22	0.16	73.34
0.50	1.00	0.34	0.50	0.17	76.30	0.50	0.18	0.34	0.09	0.03	13.73
0.50	0.90	0.28	0.45	0.13	56.55	0.50	0.08	0.28	0.04	0.01	5.03
0.50	0.50	0.20	0.25	0.05	22.44	0.50	0.00	0.20	0.00	0.00	0.00
0.25	0.15	0.00	0.04	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				4.85	2177.12	Total Discharge Rate =				1.50	674.46

Total Width (ft) **10.50**

Average Depth (ft) **0.75**

Total Area (ft²) **8.18**

Total Width (ft) **5.00**

Average Depth (ft) **0.37**

Total Area (ft²) **1.83**

Stream Name:		Trib 18788				Stream Name:		Trib 18788			
Sampling Date:		2/28/2022				Sampling Date:		9/21/2022			
Stream Stage (in feet):		0.60				Stream Stage (ft):		0.44			
CEC Project Number:		132-065.1302				Estimated Flow		0.31 cfs		140.38 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.20	0.02	0.10	0.00	0.74	0.50	0.04	0.02	0.02	0.00	0.15
1.00	0.50	0.02	0.50	0.01	3.70	1.00	0.34	0.02	0.34	0.01	2.52
1.00	0.60	0.02	0.60	0.01	4.44	1.00	0.44	0.02	0.44	0.01	3.26
1.00	1.10	0.02	1.10	0.02	8.15	1.00	0.94	0.02	0.94	0.02	6.96
1.00	1.00	0.02	1.00	0.02	7.41	1.00	0.84	0.02	0.84	0.01	6.22
1.00	1.00	0.02	1.00	0.02	7.41	1.00	0.84	0.02	0.84	0.01	6.22
1.00	1.40	0.02	1.40	0.02	10.37	1.00	1.24	0.02	1.24	0.02	9.18
1.00	1.10	0.02	1.10	0.02	8.15	1.00	0.94	0.02	0.94	0.02	6.96
1.00	1.00	0.02	1.00	0.02	7.70	1.00	0.84	0.02	0.84	0.01	6.47
1.00	0.90	0.02	0.90	0.02	6.93	1.00	0.74	0.02	0.74	0.01	5.70
1.00	0.93	0.02	0.93	0.02	7.16	1.00	0.77	0.02	0.77	0.01	5.93
1.00	1.00	0.02	1.00	0.02	7.70	1.00	0.84	0.02	0.84	0.01	6.47
1.00	0.80	0.02	0.80	0.01	6.16	1.00	0.64	0.02	0.64	0.01	4.93
1.00	1.10	0.02	1.10	0.02	8.47	1.00	0.94	0.02	0.94	0.02	7.24
1.00	1.20	0.02	1.20	0.02	9.24	1.00	1.04	0.02	1.04	0.02	8.01
1.00	1.10	0.02	1.10	0.02	8.47	1.00	0.94	0.02	0.94	0.02	7.24
1.00	0.92	0.02	0.92	0.02	7.09	1.00	0.76	0.02	0.76	0.01	5.85
1.00	1.00	0.02	1.00	0.02	8.59	1.00	0.84	0.02	0.84	0.02	7.22
1.00	1.00	0.02	1.00	0.02	8.59	1.00	0.84	0.02	0.84	0.02	7.22
1.00	1.00	0.02	1.00	0.02	8.59	1.00	0.84	0.02	0.84	0.02	7.22
1.00	1.10	0.02	1.10	0.02	9.45	1.00	0.94	0.02	0.94	0.02	8.08
1.00	0.89	0.02	0.89	0.02	7.65	1.00	0.73	0.02	0.73	0.01	6.27
1.00	0.61	0.02	0.61	0.01	5.24	1.00	0.45	0.02	0.45	0.01	3.87
1.00	0.30	0.02	0.30	0.01	2.58	1.00	0.14	0.02	0.14	0.00	1.20
0.50	0.10	0.02	0.05	0.00	0.43	0.50	0.00	0.02	0.00	0.00	0.00
Total Discharge Rate =				0.38	170.41	Total Discharge Rate =				0.31	140.38

Total Width (ft) **24.00**

Average Depth (ft) **0.87**

Total Area (ft²) **21.70**

Total Width (ft) **23.50**

Average Depth (ft) **0.75**

Total Area (ft²) **17.89**

Stream Name:				Trib 18790				Stream Name:				Trib 18790							
Sampling Date:				2/28/2022				Sampling Date:				9/23/2022							
Stream Stage (in feet):				0.42				Stream Stage (ft):				0.26							
CEC Project Number:				132-065.1302				Estimated Flow				0.01		cfs		3.99		gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate									
				(cfs)	(gpm)					(cfs)	(gpm)								
0.25	0.10	0.00	0.03	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00								
0.50	0.10	0.00	0.05	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00								
0.50	0.15	0.06	0.08	0.00	2.00	0.50	0.00	0.06	0.00	0.00	0.00								
0.50	0.20	0.14	0.10	0.01	6.22	0.50	0.04	0.14	0.02	0.00	1.24								
0.50	0.30	0.07	0.15	0.01	4.67	0.50	0.14	0.07	0.07	0.00	2.18								
0.25	0.25	0.06	0.06	0.00	1.57	0.25	0.09	0.06	0.02	0.00	0.57								
Total Discharge Rate =				0.03		14.46		Total Discharge Rate =				0.01		3.99					

Total Width (ft) **2.50**

Average Depth (ft) **0.18**

Total Area (ft²) **0.46**

Total Width (ft) **1.25**

Average Depth (ft) **0.09**

Total Area (ft²) **0.11**

Stream Name:			CC-1			Stream Name:			CC-1		
Sampling Date:			3/1/2022			Sampling Date:			9/23/2022		
Stream Stage (in feet):			1.58			Stream Stage (ft):			1.36		
CEC Project Number:			132-065.1302			Estimated Flow			13.26 cfs		5952.71 gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
1.00	0.67	0.00	0.67	0.00	0.00	1.00	0.45	0.00	0.45	0.00	0.00
2.00	1.17	0.08	2.34	0.19	84.02	2.00	0.95	0.08	1.90	0.15	68.22
2.00	1.60	0.02	3.20	0.05	21.54	2.00	1.38	0.02	2.76	0.04	18.58
2.00	2.25	0.03	4.50	0.11	50.49	2.00	2.03	0.03	4.06	0.10	45.56
2.00	2.35	0.00	4.70	0.00	0.00	2.00	2.13	0.00	4.26	0.00	0.00
2.00	2.15	0.00	4.30	0.00	0.00	2.00	1.93	0.00	3.86	0.00	0.00
2.00	2.15	0.04	4.30	0.15	67.55	2.00	1.93	0.04	3.86	0.14	60.64
2.00	2.70	0.02	5.40	0.08	36.36	2.00	2.48	0.02	4.96	0.07	33.39
2.00	2.72	0.09	5.44	0.46	207.54	2.00	2.50	0.09	5.00	0.43	190.75
2.00	2.77	0.28	5.54	1.55	696.23	2.00	2.55	0.28	5.10	1.43	640.93
2.00	3.00	0.28	6.00	1.65	740.57	2.00	2.78	0.28	5.56	1.53	686.26
2.00	2.75	0.47	5.50	2.59	1160.23	2.00	2.53	0.47	5.06	2.38	1067.41
2.00	2.40	0.41	4.80	1.97	883.30	2.00	2.18	0.41	4.36	1.79	802.33
2.00	2.10	0.25	4.20	1.05	471.27	2.00	1.88	0.25	3.76	0.94	421.90
2.00	1.75	0.35	3.50	1.21	541.96	2.00	1.53	0.35	3.06	1.06	473.83
2.00	1.50	0.21	3.00	0.63	282.76	2.00	1.28	0.21	2.56	0.54	241.29
2.00	1.40	0.29	2.80	0.81	364.45	2.00	1.18	0.29	2.36	0.68	307.18
2.00	1.27	0.37	2.54	0.94	421.81	2.00	1.05	0.37	2.10	0.78	348.74
2.00	1.10	0.48	2.20	1.06	473.97	2.00	0.88	0.48	1.76	0.84	379.17
2.00	0.78	0.32	1.56	0.50	224.06	2.00	0.56	0.32	1.12	0.36	160.86
1.00	0.40	0.07	0.40	0.03	12.57	1.00	0.18	0.07	0.18	0.01	5.66
Total Discharge Rate =				15.02	6740.68	Total Discharge Rate =				13.26	5952.71

Total Width (ft) **40.00**

Average Depth (ft) **1.86**

Total Area (ft²) **76.89**

Total Width (ft) **40.00**

Average Depth (ft) **1.64**

Total Area (ft²) **68.09**

Stream Name:		CC-2				Stream Name:		CC-2			
Sampling Date:		3/1/2022				Sampling Date:		9/23/2022			
Stream Stage (in feet):		1.35				Stream Stage (ft):		1.12			
CEC Project Number:		132-065.1302				Estimated Flow		10.08	cfs	4525.59	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.40	0.00	0.20	0.00	0.00	0.50	0.17	0.00	0.09	0.00	0.00
1.00	0.80	0.16	0.80	0.13	57.45	1.00	0.57	0.16	0.57	0.09	40.93
1.00	0.90	0.22	0.90	0.20	88.87	1.00	0.67	0.22	0.67	0.15	66.16
1.00	1.10	0.22	1.10	0.24	108.62	1.00	0.87	0.22	0.87	0.19	85.91
1.00	1.25	0.24	1.25	0.30	134.65	1.00	1.02	0.24	1.02	0.24	109.87
1.00	1.46	0.27	1.46	0.39	176.93	1.00	1.23	0.27	1.23	0.33	149.06
1.00	1.57	0.27	1.57	0.42	186.74	1.00	1.34	0.27	1.34	0.36	159.38
1.00	1.70	0.25	1.70	0.42	186.94	1.00	1.47	0.25	1.47	0.36	161.65
1.00	1.87	0.29	1.87	0.54	243.40	1.00	1.64	0.29	1.64	0.48	213.46
1.00	1.96	0.30	1.96	0.59	263.91	1.00	1.73	0.30	1.73	0.52	232.94
1.00	2.05	0.30	2.05	0.60	271.43	1.00	1.82	0.30	1.82	0.54	240.98
1.00	2.13	0.31	2.13	0.65	291.58	1.00	1.90	0.31	1.90	0.58	260.10
1.00	2.15	0.28	2.15	0.60	270.20	1.00	1.92	0.28	1.92	0.54	241.29
1.00	2.20	0.30	2.20	0.65	291.29	1.00	1.97	0.30	1.97	0.58	260.84
1.00	2.25	0.26	2.25	0.59	262.57	1.00	2.02	0.26	2.02	0.53	235.73
1.00	2.20	0.25	2.20	0.54	241.92	1.00	1.97	0.25	1.97	0.48	216.63
1.00	2.24	0.26	2.24	0.58	261.40	1.00	2.01	0.26	2.01	0.52	234.56
1.00	2.20	0.24	2.20	0.52	232.05	1.00	1.97	0.24	1.97	0.46	207.79
1.00	2.25	0.24	2.25	0.54	242.37	1.00	2.02	0.24	2.02	0.48	217.59
1.00	2.25	0.23	2.25	0.52	232.27	1.00	2.02	0.23	2.02	0.46	208.53
1.00	2.18	0.20	2.18	0.44	195.69	1.00	1.95	0.20	1.95	0.39	175.04
1.00	2.12	0.20	2.12	0.41	185.55	1.00	1.89	0.20	1.89	0.37	165.42
1.00	2.00	0.13	2.00	0.25	112.21	1.00	1.77	0.13	1.77	0.22	99.30
1.00	1.85	0.13	1.85	0.23	103.79	1.00	1.62	0.13	1.62	0.20	90.89
1.00	1.70	0.13	1.70	0.21	95.38	1.00	1.47	0.13	1.47	0.18	82.47
1.00	1.65	0.10	1.65	0.16	70.35	1.00	1.42	0.10	1.42	0.13	60.55
1.00	1.55	0.11	1.55	0.17	76.53	1.00	1.32	0.11	1.32	0.15	65.17
1.00	1.33	0.11	1.33	0.15	65.66	1.00	1.10	0.11	1.10	0.12	54.31
1.00	1.42	0.10	1.42	0.14	63.73	1.00	1.19	0.10	1.19	0.12	53.41
1.00	1.32	0.11	1.32	0.15	65.17	1.00	1.09	0.11	1.09	0.12	53.81
1.00	1.30	0.09	1.30	0.12	52.51	1.00	1.07	0.09	1.07	0.10	43.22
1.00	1.10	0.06	1.10	0.07	29.62	1.00	0.87	0.06	0.87	0.05	23.43
1.00	0.88	0.04	0.88	0.04	15.80	1.00	0.65	0.04	0.65	0.03	11.67
1.00	0.62	0.02	0.62	0.01	5.57	1.00	0.39	0.02	0.39	0.01	3.50
0.50	0.30	0.00	0.15	0.00	0.00	0.50	0.07	0.00	0.04	0.00	0.00
Total Discharge Rate =				11.55	5182.14	Total Discharge Rate =				10.08	4525.59

Total Width (ft) **34.00**

Average Depth (ft) **1.61**

Total Area (ft²) **55.90**

Total Width (ft) **34.00**

Average Depth (ft) **1.38**

Total Area (ft²) **48.08**

Stream Name:		CC-3				Stream Name:		CC-3			
Sampling Date:		3/1/2022				Sampling Date:		9/23/2022			
Stream Stage (in feet):		0.96				Stream Stage (ft):		0.00			
CEC Project Number:		132-065.1302				Estimated Flow		7.38 cfs		3310.15 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.35	0.00	0.18	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.58	0.00	0.58	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.71	0.00	0.71	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.90	0.00	0.90	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.70	0.00	0.70	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	1.22	0.31	1.22	0.38	169.75	1.00	0.26	0.31	0.26	0.08	36.18
1.00	1.72	0.64	1.72	1.09	490.21	1.00	0.76	0.64	0.76	0.48	216.61
1.00	2.00	0.81	2.00	1.61	722.62	1.00	1.04	0.81	1.04	0.84	375.76
1.00	2.00	0.68	2.00	1.35	605.92	1.00	1.04	0.68	1.04	0.70	315.08
1.00	1.95	0.77	1.95	1.50	673.92	1.00	0.99	0.77	0.99	0.76	342.14
1.00	1.50	0.85	1.50	1.28	572.26	1.00	0.54	0.85	0.54	0.46	206.01
1.00	1.80	0.84	1.80	1.51	678.63	1.00	0.84	0.84	0.84	0.71	316.70
1.00	1.70	0.85	1.70	1.44	644.75	1.00	0.74	0.85	0.74	0.63	280.65
1.00	1.60	0.95	1.60	1.52	682.22	1.00	0.64	0.95	0.64	0.61	272.89
1.00	1.55	1.15	1.55	1.77	796.56	1.00	0.59	1.15	0.59	0.68	303.21
1.00	1.40	1.00	1.40	1.40	628.36	1.00	0.44	1.00	0.44	0.44	197.49
1.00	1.33	0.96	1.33	1.28	573.07	1.00	0.37	0.96	0.37	0.36	159.42
1.00	1.25	0.91	1.25	1.14	510.55	1.00	0.29	0.91	0.29	0.26	118.45
1.00	1.25	0.92	1.25	1.15	516.16	1.00	0.29	0.92	0.29	0.27	119.75
1.00	1.18	0.39	1.18	0.46	206.55	1.00	0.22	0.39	0.22	0.09	38.51
1.00	1.03	0.36	1.03	0.37	166.43	1.00	0.07	0.36	0.07	0.03	11.31
1.00	0.90	0.06	0.90	0.05	24.24	1.00	0.00	0.06	0.00	0.00	0.00
1.00	0.80	0.03	0.80	0.02	10.77	1.00	0.00	0.03	0.00	0.00	0.00
1.00	0.75	0.06	0.75	0.05	20.20	1.00	0.00	0.06	0.00	0.00	0.00
1.00	0.65	0.00	0.65	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.50	0.00	0.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.44	0.00	0.44	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.40	0.00	0.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.27	0.00	0.27	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				19.37	8693.16	Total Discharge Rate =				7.38	3310.15

Total Width (ft) **30.00**

Average Depth (ft) **1.07**

Total Area (ft²) **32.96**

Total Width (ft) **16.00**

Average Depth (ft) **0.57**

Total Area (ft²) **9.12**

Stream Name:		CC-4				Stream Name:		CC-4			
Sampling Date:		3/2/2022				Sampling Date:		9/23/2022			
Stream Stage (in feet):		1.20				Stream Stage (ft):		0.22			
CEC Project Number:		132-065.1302				Estimated Flow		12.32	cfs	5530.20	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.86	0.30	0.43	0.13	57.90	0.50	0.00	0.30	0.00	0.00	0.00
1.00	1.15	0.42	1.15	0.48	216.79	1.00	0.17	0.42	0.17	0.07	32.05
1.00	1.48	0.52	1.48	0.77	345.42	1.00	0.50	0.52	0.50	0.26	116.70
1.00	1.80	0.42	1.80	0.76	339.32	1.00	0.82	0.42	0.82	0.34	154.58
1.00	1.98	0.26	1.98	0.51	231.06	1.00	1.00	0.26	1.00	0.26	116.70
1.00	2.05	0.33	2.05	0.68	303.63	1.00	1.07	0.33	1.07	0.35	158.48
1.00	1.96	0.54	1.96	1.05	470.64	1.00	0.98	0.54	0.98	0.52	235.32
1.00	1.95	0.76	1.95	1.48	665.17	1.00	0.97	0.76	0.97	0.74	330.88
1.00	1.89	0.69	1.89	1.29	581.08	1.00	0.91	0.69	0.91	0.62	279.78
1.00	1.78	0.82	1.78	1.46	655.11	1.00	0.80	0.82	0.80	0.66	294.43
1.00	1.75	0.74	1.75	1.29	577.31	1.00	0.77	0.74	0.77	0.57	254.02
1.00	1.71	0.88	1.71	1.50	671.56	1.00	0.73	0.88	0.73	0.64	286.69
1.00	1.69	0.93	1.69	1.56	701.64	1.00	0.71	0.93	0.71	0.66	294.77
1.00	1.69	0.98	1.69	1.66	743.35	1.00	0.71	0.98	0.71	0.70	312.30
1.00	1.61	0.96	1.61	1.55	693.71	1.00	0.63	0.96	0.63	0.60	271.45
1.00	1.59	1.04	1.59	1.65	738.62	1.00	0.61	1.04	0.61	0.63	283.37
1.00	1.57	1.10	1.57	1.73	775.13	1.00	0.59	1.10	0.59	0.65	291.29
1.00	1.56	1.20	1.56	1.87	840.21	1.00	0.58	1.20	0.58	0.70	312.39
1.00	1.50	1.11	1.50	1.67	747.30	1.00	0.52	1.11	0.52	0.58	259.07
1.00	1.50	1.23	1.50	1.84	824.73	1.00	0.52	1.23	0.52	0.64	285.91
1.00	1.48	1.18	1.48	1.75	783.84	1.00	0.50	1.18	0.50	0.59	264.81
1.00	1.13	1.18	1.13	1.33	598.47	1.00	0.15	1.18	0.15	0.18	79.44
1.00	1.32	1.23	1.32	1.62	728.72	1.00	0.34	1.23	0.34	0.42	187.70
1.00	1.31	1.08	1.31	1.41	635.01	1.00	0.33	1.08	0.33	0.36	159.96
1.00	1.21	1.20	1.21	1.45	651.70	1.00	0.23	1.20	0.23	0.28	123.88
1.00	1.20	0.87	1.20	1.04	468.58	1.00	0.22	0.87	0.22	0.19	85.91
1.00	1.08	0.94	1.08	1.02	455.65	1.00	0.10	0.94	0.10	0.09	42.19
1.00	1.02	0.90	1.02	0.92	412.03	1.00	0.04	0.90	0.04	0.04	16.16
1.00	0.95	0.89	0.95	0.85	379.49	1.00	0.00	0.89	0.00	0.00	0.00
1.00	0.90	0.67	0.90	0.60	270.65	1.00	0.00	0.67	0.00	0.00	0.00
1.00	0.88	0.69	0.88	0.61	272.53	1.00	0.00	0.69	0.00	0.00	0.00
1.00	0.94	0.60	0.94	0.56	253.14	1.00	0.00	0.60	0.00	0.00	0.00
1.00	0.86	0.50	0.86	0.43	193.00	1.00	0.00	0.50	0.00	0.00	0.00
1.00	0.78	0.20	0.78	0.16	70.02	1.00	0.00	0.20	0.00	0.00	0.00
1.00	0.46	0.17	0.46	0.08	35.10	1.00	0.00	0.17	0.00	0.00	0.00
0.50	0.10	0.03	0.05	0.00	0.67	0.50	0.00	0.03	0.00	0.00	0.00
Total Discharge Rate =				38.74	17388.27	Total Discharge Rate =				12.32	5530.20

Total Width (ft) **35.00**

Average Depth (ft) **1.35**

Total Area (ft²) **48.21**

Total Width (ft) **27.00**

Average Depth (ft) **0.57**

Total Area (ft²) **15.50**

Stream Name:		ECC-1				Stream Name:		ECC-1			
Sampling Date:		3/2/2022				Sampling Date:		9/23/2022			
Stream Stage (in feet):		1.16				Stream Stage (ft):		0.54			
CEC Project Number:		132-065.1302				Estimated Flow		11.79	cfs	5293.51	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.50	0.00	0.25	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.97	0.02	0.97	0.02	8.71	1.00	0.35	0.02	0.35	0.01	3.14
1.00	1.35	0.29	1.35	0.39	175.72	1.00	0.73	0.29	0.73	0.21	95.02
1.00	1.15	0.77	1.15	0.89	397.44	1.00	0.53	0.77	0.53	0.41	183.17
1.00	0.92	0.77	0.92	0.71	317.95	1.00	0.30	0.77	0.30	0.23	103.68
1.00	1.45	0.62	1.45	0.90	403.50	1.00	0.83	0.62	0.83	0.51	230.97
1.00	1.47	0.88	1.47	1.29	580.61	1.00	0.85	0.88	0.85	0.75	335.73
1.00	1.40	1.00	1.40	1.40	628.36	1.00	0.78	1.00	0.78	0.78	350.09
1.00	1.46	1.02	1.46	1.49	668.40	1.00	0.84	1.02	0.84	0.86	384.56
1.00	1.45	1.04	1.45	1.51	676.84	1.00	0.83	1.04	0.83	0.86	387.43
1.00	1.35	1.08	1.35	1.46	654.40	1.00	0.73	1.08	0.73	0.79	353.86
1.00	1.35	0.94	1.35	1.27	569.57	1.00	0.73	0.94	0.73	0.69	307.99
1.00	1.35	1.10	1.35	1.49	666.51	1.00	0.73	1.10	0.73	0.80	360.41
1.00	1.48	0.94	1.48	1.39	624.41	1.00	0.86	0.94	0.86	0.81	362.83
1.00	1.60	0.80	1.60	1.28	574.50	1.00	0.98	0.80	0.98	0.78	351.88
1.00	1.50	0.86	1.50	1.28	575.63	1.00	0.88	0.86	0.88	0.75	337.70
1.00	1.55	0.81	1.55	1.26	563.51	1.00	0.93	0.81	0.93	0.75	338.10
1.00	1.40	0.80	1.40	1.12	502.69	1.00	0.78	0.80	0.78	0.62	280.07
1.00	1.20	0.75	1.20	0.90	403.95	1.00	0.58	0.75	0.58	0.44	195.24
1.00	1.18	0.59	1.18	0.70	312.48	1.00	0.56	0.59	0.56	0.33	148.29
1.00	1.02	0.65	1.02	0.66	297.57	1.00	0.40	0.65	0.40	0.26	116.70
1.00	0.82	0.60	0.82	0.49	220.82	1.00	0.20	0.60	0.20	0.12	53.86
1.00	0.67	0.57	0.67	0.38	171.41	1.00	0.05	0.57	0.05	0.03	12.79
1.00	0.56	0.51	0.56	0.29	128.19	1.00	0.00	0.51	0.00	0.00	0.00
1.00	0.41	0.41	0.41	0.17	75.45	1.00	0.00	0.41	0.00	0.00	0.00
1.00	0.30	0.36	0.30	0.11	48.47	1.00	0.00	0.36	0.00	0.00	0.00
0.50	0.10	0.00	0.05	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				22.83	10247.08	Total Discharge Rate =				11.79	5293.51

Total Width (ft) **26.00**

Average Depth (ft) **1.11**

Total Area (ft²) **29.66**

Total Width (ft) **22.00**

Average Depth (ft) **0.66**

Total Area (ft²) **14.45**

Stream Name:		MCC-1				Stream Name:		MCC-1			
Sampling Date:		3/1/2022				Sampling Date:		9/23/2022			
Stream Stage (in feet):		0.56				Stream Stage (ft):		0.64			
CEC Project Number:		132-065.1302				Estimated Flow		2.66 cfs		1196.02 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.05	0.25	0.01	0.00	1.41	0.25	0.13	0.25	0.03	0.01	3.66
0.50	0.05	0.25	0.03	0.01	2.81	0.50	0.13	0.25	0.07	0.02	7.32
0.50	0.10	0.65	0.05	0.03	14.59	0.50	0.18	0.65	0.09	0.06	26.26
0.50	0.15	1.25	0.08	0.09	42.08	0.50	0.23	1.25	0.12	0.14	64.52
0.50	0.20	0.77	0.10	0.08	34.56	0.50	0.28	0.77	0.14	0.11	48.38
0.50	0.20	1.18	0.10	0.12	52.96	0.50	0.28	1.18	0.14	0.17	74.15
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.33	1.32	0.17	0.22	97.76
0.50	0.30	1.41	0.15	0.21	94.93	0.50	0.38	1.41	0.19	0.27	120.24
0.50	0.40	1.47	0.20	0.29	131.96	0.50	0.48	1.47	0.24	0.35	158.35
0.50	0.30	1.34	0.15	0.20	90.22	0.50	0.38	1.34	0.19	0.25	114.27
0.50	0.30	1.33	0.15	0.20	89.54	0.50	0.38	1.33	0.19	0.25	113.42
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.33	1.32	0.17	0.22	97.76
0.50	0.25	1.51	0.13	0.19	84.72	0.50	0.33	1.51	0.17	0.25	111.83
0.50	0.20	1.41	0.10	0.14	63.29	0.50	0.28	1.41	0.14	0.20	88.60
0.50	0.15	0.86	0.08	0.06	28.95	0.50	0.23	0.86	0.12	0.10	44.39
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.13	0.19	0.07	0.01	5.58
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.13	0.19	0.07	0.01	5.58
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.13	0.19	0.07	0.01	5.58
0.25	0.05	0.19	0.01	0.00	1.07	0.25	0.13	0.19	0.03	0.01	2.79
Total Discharge Rate =				1.98	889.78	Total Discharge Rate =				2.66	1196.02

Total Width (ft) **9.50**

Average Depth (ft) **0.17**

Total Area (ft²) **1.68**

Total Width (ft) **9.50**

Average Depth (ft) **0.25**

Total Area (ft²) **2.44**

APPENDIX B-4
DECEMBER 2022 STREAM FLOW ESTIMATE CALCULATIONS
MONTOUR STEAM ELECTRIC STATION
WASHINGTONVILLE, PA
MONTOUR, LLC
CEC PROJECT 132-065

Surface Water Sampling Point	Date Monitored	Stream Stage (in feet)	Stream Flow Estimate (in gpm)
ECC-1	12/20/2022	0.84	7,600
MCC-1	12/20/2022	0.86	2,000
CC-1	12/20/2022	1.60	6,800
CC-2	12/20/2022	1.56	5,800
CC-3	12/20/2022	0.00	<3,000
CC-4	12/20/2022	0.72	11,500
Trib 18790	12/19/2022	0.34	9
Trib 18787 (1)	12/19/2022	0.98	500
Trib 18787 (2)	12/19/2022	1.38	1,200
Trib 18787 (3)	12/19/2022	0.94	1,400
Trib 18788	12/19/2022	0.62	200
MP-3-5	12/20/2022	1.06	200

Stream Name:		MP-3-5				Stream Name:		MP-3-5			
Sampling Date:		3/2/2022				Sampling Date:		12/20/2022			
Stream Stage (in feet):		1.20				Stream Stage (ft):		1.06			
CEC Project Number:		132-065.1302				Estimated Flow		0.37 cfs		163.84 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.06	0.00	0.03	0.00	0.00
1.00	0.50	0.01	0.50	0.00	1.48	1.00	0.36	0.01	0.36	0.00	1.07
1.00	0.65	0.00	0.65	0.00	0.00	1.00	0.51	0.00	0.51	0.00	0.00
1.00	0.55	0.00	0.55	0.00	0.00	1.00	0.41	0.00	0.41	0.00	0.00
1.00	0.90	0.03	0.90	0.03	13.33	1.00	0.76	0.03	0.76	0.03	11.26
1.00	0.70	0.01	0.70	0.00	2.07	1.00	0.56	0.01	0.56	0.00	1.66
1.00	0.60	0.02	0.60	0.01	5.33	1.00	0.46	0.02	0.46	0.01	4.09
1.00	0.65	0.03	0.65	0.02	9.63	1.00	0.51	0.03	0.51	0.02	7.55
1.00	0.46	0.04	0.46	0.02	8.18	1.00	0.32	0.04	0.32	0.01	5.69
1.00	0.35	0.05	0.35	0.02	7.26	1.00	0.21	0.05	0.21	0.01	4.35
1.00	0.45	0.05	0.45	0.02	10.66	1.00	0.31	0.05	0.31	0.02	7.35
1.00	0.38	0.07	0.38	0.03	12.38	1.00	0.24	0.07	0.24	0.02	7.82
1.00	0.50	0.08	0.50	0.04	17.77	1.00	0.36	0.08	0.36	0.03	12.80
1.00	0.80	0.10	0.80	0.08	35.55	1.00	0.66	0.10	0.66	0.07	29.33
1.00	0.80	0.08	0.80	0.06	28.44	1.00	0.66	0.08	0.66	0.05	23.46
1.00	0.70	0.08	0.70	0.06	24.88	1.00	0.56	0.08	0.56	0.04	19.91
1.00	0.65	0.01	0.65	0.01	3.85	1.00	0.51	0.01	0.51	0.01	3.02
1.00	0.60	0.02	0.60	0.01	5.33	1.00	0.46	0.02	0.46	0.01	4.09
1.00	0.55	0.03	0.55	0.02	8.15	1.00	0.41	0.03	0.41	0.01	6.07
1.00	0.45	0.03	0.45	0.01	6.67	1.00	0.31	0.03	0.31	0.01	4.59
1.00	0.49	0.05	0.49	0.02	10.16	1.00	0.35	0.05	0.35	0.02	7.26
0.50	0.38	0.05	0.19	0.01	3.94	0.50	0.24	0.05	0.12	0.01	2.49
Total Discharge Rate =				0.48	215.06	Total Discharge Rate =				0.37	163.84

Total Width (ft) **21.00**

Average Depth (ft) **0.56**

Total Area (ft²) **12.02**

Total Width (ft) **21.00**

Average Depth (ft) **0.42**

Total Area (ft²) **9.08**

Stream Name:		Trib 18787(1)				Stream Name:		Trib 18787(1)			
Sampling Date:		2/28/2022				Sampling Date:		#####			
Stream Stage (in feet):		1.00				Stream Stage (ft):		0.98			
CEC Project Number:		132-065.1302				Estimated Flow		1.07 cfs		481.69 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.20	0.01	0.05	0.00	0.22	0.25	0.18	0.01	0.05	0.00	0.20
0.50	0.30	0.02	0.15	0.00	1.35	0.50	0.28	0.02	0.14	0.00	1.26
0.50	0.35	0.05	0.18	0.01	3.93	0.50	0.33	0.05	0.17	0.01	3.70
0.50	0.40	0.05	0.20	0.01	4.49	0.50	0.38	0.05	0.19	0.01	4.26
0.50	0.40	0.05	0.20	0.01	4.49	0.50	0.38	0.05	0.19	0.01	4.26
0.50	0.48	0.08	0.24	0.02	8.62	0.50	0.46	0.08	0.23	0.02	8.26
0.50	0.50	0.08	0.25	0.02	8.98	0.50	0.48	0.08	0.24	0.02	8.62
0.50	0.50	0.10	0.25	0.03	11.22	0.50	0.48	0.10	0.24	0.02	10.77
0.50	0.60	0.17	0.30	0.05	22.89	0.50	0.58	0.17	0.29	0.05	22.13
0.50	0.65	0.20	0.33	0.07	29.17	0.50	0.63	0.20	0.32	0.06	28.28
0.50	0.70	0.11	0.35	0.04	17.28	0.50	0.68	0.11	0.34	0.04	16.79
0.50	0.80	0.12	0.40	0.05	21.54	0.50	0.78	0.12	0.39	0.05	21.01
0.50	1.00	0.14	0.50	0.07	31.42	0.50	0.98	0.14	0.49	0.07	30.79
0.50	1.10	0.52	0.55	0.29	128.37	0.50	1.08	0.52	0.54	0.28	126.03
0.50	1.00	0.33	0.50	0.17	74.06	0.50	0.98	0.33	0.49	0.16	72.58
0.50	0.80	0.40	0.40	0.16	71.81	0.50	0.78	0.40	0.39	0.16	70.02
0.50	0.50	0.33	0.25	0.08	37.03	0.50	0.48	0.33	0.24	0.08	35.55
0.50	0.50	0.10	0.25	0.03	11.22	0.50	0.48	0.10	0.24	0.02	10.77
0.50	0.35	0.02	0.18	0.00	1.57	0.50	0.33	0.02	0.17	0.00	1.48
0.50	0.35	0.05	0.18	0.01	3.93	0.50	0.33	0.05	0.17	0.01	3.70
0.50	0.30	0.01	0.15	0.00	0.67	0.50	0.28	0.01	0.14	0.00	0.63
0.25	0.20	0.03	0.05	0.00	0.67	0.25	0.18	0.03	0.05	0.00	0.61
Total Discharge Rate =				1.10		Total Discharge Rate =				1.07	
				494.93						481.69	

Total Width (ft) **10.50**
Average Depth (ft) **0.54**
Total Area (ft²) **5.89**

Total Width (ft) **10.50**
Average Depth (ft) **0.52**
Total Area (ft²) **5.68**

Stream Name:			Trib 18787(2)			Stream Name:			Trib 18787(2)			
Sampling Date:			2/28/2022			Sampling Date:			12/19/2022			
Stream Stage (in feet):			1.60			Stream Stage (ft):			1.38			
CEC Project Number:			132-065.1302			Estimated Flow			2.75	cfs	1235.41	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		
				(cfs)	(gpm)					(cfs)	(gpm)	
0.50	0.30	0.10	0.15	0.02	6.73	0.50	0.08	0.10	0.04	0.00	1.80	
1.00	0.25	0.04	0.25	0.01	4.49	1.00	0.03	0.04	0.03	0.00	0.54	
1.00	0.40	0.07	0.40	0.03	12.57	1.00	0.18	0.07	0.18	0.01	5.66	
1.00	0.30	0.04	0.30	0.01	5.39	1.00	0.08	0.04	0.08	0.00	1.44	
1.00	0.30	0.05	0.30	0.02	6.73	1.00	0.08	0.05	0.08	0.00	1.80	
1.00	0.30	0.04	0.30	0.01	5.39	1.00	0.08	0.04	0.08	0.00	1.44	
1.00	0.20	0.01	0.20	0.00	0.90	1.00	0.00	0.01	0.00	0.00	0.00	
1.00	0.50	0.34	0.50	0.17	76.30	1.00	0.28	0.34	0.28	0.10	42.73	
1.00	0.60	0.05	0.60	0.03	13.46	1.00	0.38	0.05	0.38	0.02	8.53	
1.00	0.35	0.01	0.35	0.00	1.57	1.00	0.13	0.01	0.13	0.00	0.58	
1.00	0.30	0.01	0.30	0.00	1.35	1.00	0.08	0.01	0.08	0.00	0.36	
1.00	0.55	0.03	0.55	0.02	7.41	1.00	0.33	0.03	0.33	0.01	4.44	
1.00	0.80	0.05	0.80	0.04	17.95	1.00	0.58	0.05	0.58	0.03	13.02	
1.00	1.00	0.42	1.00	0.42	188.51	1.00	0.78	0.42	0.78	0.33	147.04	
1.00	1.10	0.71	1.10	0.78	350.54	1.00	0.88	0.71	0.88	0.62	280.43	
1.00	1.10	0.13	1.10	0.14	64.18	1.00	0.88	0.13	0.88	0.11	51.35	
1.00	1.40	0.92	1.40	1.29	578.09	1.00	1.18	0.92	1.18	1.09	487.25	
1.00	1.70	0.16	1.70	0.27	122.08	1.00	1.48	0.16	1.48	0.24	106.28	
1.00	1.20	0.05	1.20	0.06	26.93	1.00	0.98	0.05	0.98	0.05	21.99	
1.00	0.75	0.04	0.75	0.03	13.46	1.00	0.53	0.04	0.53	0.02	9.52	
1.00	0.55	0.21	0.55	0.12	51.84	1.00	0.33	0.21	0.33	0.07	31.10	
1.00	0.60	0.04	0.60	0.02	10.77	1.00	0.38	0.04	0.38	0.02	6.82	
1.00	0.60	0.03	0.60	0.02	8.08	1.00	0.38	0.03	0.38	0.01	5.12	
1.00	0.50	0.04	0.50	0.02	8.98	1.00	0.28	0.04	0.28	0.01	5.03	
1.00	0.20	0.00	0.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	
1.00	0.35	0.02	0.35	0.01	3.14	1.00	0.13	0.02	0.13	0.00	1.17	
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	
Total Discharge Rate =				3.54	1586.84	Total Discharge Rate =				2.75	1235.41	

Total Width (ft) **26.00**

Average Depth (ft) **0.61**

Total Area (ft²) **16.15**

Total Width (ft) **23.50**

Average Depth (ft) **0.44**

Total Area (ft²) **10.48**

Stream Name:		Trib 18787(3)				Stream Name:		Trib 18787(3)			
Sampling Date:		2/28/2022				Sampling Date:		12/19/2022			
Stream Stage (in feet):		1.36				Stream Stage (ft):		0.94			
CEC Project Number:		132-065.1302				Estimated Flow		3.06 cfs		1372.55 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.15	0.00	0.04	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
0.50	0.25	0.00	0.13	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.01	0.10	0.00	0.45	0.50	0.00	0.01	0.00	0.00	0.00
0.50	0.40	0.18	0.20	0.04	16.16	0.50	0.00	0.18	0.00	0.00	0.00
0.50	0.50	0.20	0.25	0.05	22.44	0.50	0.08	0.20	0.04	0.01	3.59
0.50	0.65	0.23	0.33	0.07	33.55	0.50	0.23	0.23	0.12	0.03	11.87
0.50	0.65	0.34	0.33	0.11	49.60	0.50	0.23	0.34	0.12	0.04	17.55
0.50	0.80	0.42	0.40	0.17	75.40	0.50	0.38	0.42	0.19	0.08	35.82
0.50	0.85	0.50	0.43	0.21	95.38	0.50	0.43	0.50	0.22	0.11	48.25
0.50	0.95	0.64	0.48	0.30	136.44	0.50	0.53	0.64	0.27	0.17	76.12
0.50	1.36	0.73	0.68	0.50	222.80	0.50	0.94	0.73	0.47	0.34	153.99
0.50	1.30	0.96	0.65	0.62	280.07	0.50	0.88	0.96	0.44	0.42	189.59
0.50	1.40	0.94	0.70	0.66	295.33	0.50	0.98	0.94	0.49	0.46	206.73
0.50	1.40	1.00	0.70	0.70	314.18	0.50	0.98	1.00	0.49	0.49	219.93
0.50	1.45	0.82	0.73	0.59	266.83	0.50	1.03	0.82	0.52	0.42	189.54
0.50	1.25	0.76	0.63	0.48	213.19	0.50	0.83	0.76	0.42	0.32	141.56
0.50	1.00	0.34	0.50	0.17	76.30	0.50	0.58	0.34	0.29	0.10	44.25
0.50	0.90	0.28	0.45	0.13	56.55	0.50	0.48	0.28	0.24	0.07	30.16
0.50	0.50	0.20	0.25	0.05	22.44	0.50	0.08	0.20	0.04	0.01	3.59
0.25	0.15	0.00	0.04	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				4.85	2177.12	Total Discharge Rate =				3.06	1372.55

Total Width (ft) **10.50**
Average Depth (ft) **0.75**
Total Area (ft²) **8.18**

Total Width (ft) **7.50**
Average Depth (ft) **0.58**
Total Area (ft²) **4.33**

Stream Name:		Trib 18788				Stream Name:		Trib 18788			
Sampling Date:		2/28/2022				Sampling Date:		12/19/2022			
Stream Stage (in feet):		0.60				Stream Stage (ft):		0.62			
CEC Project Number:		132-065.1302				Estimated Flow		0.39 cfs		174.19 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.20	0.02	0.10	0.00	0.74	0.50	0.22	0.02	0.11	0.00	0.81
1.00	0.50	0.02	0.50	0.01	3.70	1.00	0.52	0.02	0.52	0.01	3.85
1.00	0.60	0.02	0.60	0.01	4.44	1.00	0.62	0.02	0.62	0.01	4.59
1.00	1.10	0.02	1.10	0.02	8.15	1.00	1.12	0.02	1.12	0.02	8.29
1.00	1.00	0.02	1.00	0.02	7.41	1.00	1.02	0.02	1.02	0.02	7.55
1.00	1.00	0.02	1.00	0.02	7.41	1.00	1.02	0.02	1.02	0.02	7.55
1.00	1.40	0.02	1.40	0.02	10.37	1.00	1.42	0.02	1.42	0.02	10.52
1.00	1.10	0.02	1.10	0.02	8.15	1.00	1.12	0.02	1.12	0.02	8.29
1.00	1.00	0.02	1.00	0.02	7.70	1.00	1.02	0.02	1.02	0.02	7.86
1.00	0.90	0.02	0.90	0.02	6.93	1.00	0.92	0.02	0.92	0.02	7.09
1.00	0.93	0.02	0.93	0.02	7.16	1.00	0.95	0.02	0.95	0.02	7.32
1.00	1.00	0.02	1.00	0.02	7.70	1.00	1.02	0.02	1.02	0.02	7.86
1.00	0.80	0.02	0.80	0.01	6.16	1.00	0.82	0.02	0.82	0.01	6.32
1.00	1.10	0.02	1.10	0.02	8.47	1.00	1.12	0.02	1.12	0.02	8.63
1.00	1.20	0.02	1.20	0.02	9.24	1.00	1.22	0.02	1.22	0.02	9.40
1.00	1.10	0.02	1.10	0.02	8.47	1.00	1.12	0.02	1.12	0.02	8.63
1.00	0.92	0.02	0.92	0.02	7.09	1.00	0.94	0.02	0.94	0.02	7.24
1.00	1.00	0.02	1.00	0.02	8.59	1.00	1.02	0.02	1.02	0.02	8.76
1.00	1.00	0.02	1.00	0.02	8.59	1.00	1.02	0.02	1.02	0.02	8.76
1.00	1.00	0.02	1.00	0.02	8.59	1.00	1.02	0.02	1.02	0.02	8.76
1.00	1.10	0.02	1.10	0.02	9.45	1.00	1.12	0.02	1.12	0.02	9.62
1.00	0.89	0.02	0.89	0.02	7.65	1.00	0.91	0.02	0.91	0.02	7.82
1.00	0.61	0.02	0.61	0.01	5.24	1.00	0.63	0.02	0.63	0.01	5.41
1.00	0.30	0.02	0.30	0.01	2.58	1.00	0.32	0.02	0.32	0.01	2.75
0.50	0.10	0.02	0.05	0.00	0.43	0.50	0.12	0.02	0.06	0.00	0.52
Total Discharge Rate =				0.38	170.41	Total Discharge Rate =				0.39	174.19

Total Width (ft)	24.00	Total Width (ft)	24.00
Average Depth (ft)	0.87	Average Depth (ft)	0.89
Total Area (ft ²)	21.70	Total Area (ft ²)	22.18

Stream Name:		Trib 18790				Stream Name:		Trib 18790			
Sampling Date:		2/28/2022				Sampling Date:		12/19/2022			
Stream Stage (in feet):		0.42				Stream Stage (ft):		0.34			
CEC Project Number:		132-065.1302				Estimated Flow		0.02 cfs		9.16 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.10	0.00	0.03	0.00	0.00	0.25	0.02	0.00	0.01	0.00	0.00
0.50	0.10	0.00	0.05	0.00	0.00	0.50	0.02	0.00	0.01	0.00	0.00
0.50	0.15	0.06	0.08	0.00	2.00	0.50	0.07	0.06	0.04	0.00	0.93
0.50	0.20	0.14	0.10	0.01	6.22	0.50	0.12	0.14	0.06	0.01	3.73
0.50	0.30	0.07	0.15	0.01	4.67	0.50	0.22	0.07	0.11	0.01	3.42
0.25	0.25	0.06	0.06	0.00	1.57	0.25	0.17	0.06	0.04	0.00	1.07
Total Discharge Rate =				0.03	14.46	Total Discharge Rate =				0.02	9.16

Total Width (ft) **2.50**

Average Depth (ft) **0.18**

Total Area (ft²) **0.46**

Total Width (ft) **2.50**

Average Depth (ft) **0.10**

Total Area (ft²) **0.26**

Stream Name:		CC-2				Stream Name:		CC-2			
Sampling Date:		3/1/2022				Sampling Date:		#####			
Stream Stage (in feet):		1.35				Stream Stage (ft):		1.56			
CEC Project Number:		132-065.1302				Estimated Flow		12.88	cfs	5781.59	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.40	0.00	0.20	0.00	0.00	0.50	0.61	0.00	0.31	0.00	0.00
1.00	0.80	0.16	0.80	0.13	57.45	1.00	1.01	0.16	1.01	0.16	72.53
1.00	0.90	0.22	0.90	0.20	88.87	1.00	1.11	0.22	1.11	0.24	109.60
1.00	1.10	0.22	1.10	0.24	108.62	1.00	1.31	0.22	1.31	0.29	129.35
1.00	1.25	0.24	1.25	0.30	134.65	1.00	1.46	0.24	1.46	0.35	157.27
1.00	1.46	0.27	1.46	0.39	176.93	1.00	1.67	0.27	1.67	0.45	202.38
1.00	1.57	0.27	1.57	0.42	186.74	1.00	1.78	0.27	1.78	0.47	211.71
1.00	1.70	0.25	1.70	0.42	186.94	1.00	1.91	0.25	1.91	0.47	210.03
1.00	1.87	0.29	1.87	0.54	243.40	1.00	2.08	0.29	2.08	0.60	270.73
1.00	1.96	0.30	1.96	0.59	263.91	1.00	2.17	0.30	2.17	0.65	292.19
1.00	2.05	0.30	2.05	0.60	271.43	1.00	2.26	0.30	2.26	0.67	299.24
1.00	2.13	0.31	2.13	0.65	291.58	1.00	2.34	0.31	2.34	0.71	320.33
1.00	2.15	0.28	2.15	0.60	270.20	1.00	2.36	0.28	2.36	0.66	296.59
1.00	2.20	0.30	2.20	0.65	291.29	1.00	2.41	0.30	2.41	0.71	319.10
1.00	2.25	0.26	2.25	0.59	262.57	1.00	2.46	0.26	2.46	0.64	287.07
1.00	2.20	0.25	2.20	0.54	241.92	1.00	2.41	0.25	2.41	0.59	265.01
1.00	2.24	0.26	2.24	0.58	261.40	1.00	2.45	0.26	2.45	0.64	285.91
1.00	2.20	0.24	2.20	0.52	232.05	1.00	2.41	0.24	2.41	0.57	254.20
1.00	2.25	0.24	2.25	0.54	242.37	1.00	2.46	0.24	2.46	0.59	264.99
1.00	2.25	0.23	2.25	0.52	232.27	1.00	2.46	0.23	2.46	0.57	253.95
1.00	2.18	0.20	2.18	0.44	195.69	1.00	2.39	0.20	2.39	0.48	214.54
1.00	2.12	0.20	2.12	0.41	185.55	1.00	2.33	0.20	2.33	0.45	203.93
1.00	2.00	0.13	2.00	0.25	112.21	1.00	2.21	0.13	2.21	0.28	123.99
1.00	1.85	0.13	1.85	0.23	103.79	1.00	2.06	0.13	2.06	0.26	115.57
1.00	1.70	0.13	1.70	0.21	95.38	1.00	1.91	0.13	1.91	0.24	107.16
1.00	1.65	0.10	1.65	0.16	70.35	1.00	1.86	0.10	1.86	0.18	79.31
1.00	1.55	0.11	1.55	0.17	76.53	1.00	1.76	0.11	1.76	0.19	86.89
1.00	1.33	0.11	1.33	0.15	65.66	1.00	1.54	0.11	1.54	0.17	76.03
1.00	1.42	0.10	1.42	0.14	63.73	1.00	1.63	0.10	1.63	0.16	73.16
1.00	1.32	0.11	1.32	0.15	65.17	1.00	1.53	0.11	1.53	0.17	75.54
1.00	1.30	0.09	1.30	0.12	52.51	1.00	1.51	0.09	1.51	0.14	61.00
1.00	1.10	0.06	1.10	0.07	29.62	1.00	1.31	0.06	1.31	0.08	35.28
1.00	0.88	0.04	0.88	0.04	15.80	1.00	1.09	0.04	1.09	0.04	19.57
1.00	0.62	0.02	0.62	0.01	5.57	1.00	0.83	0.02	0.83	0.02	7.45
0.50	0.30	0.00	0.15	0.00	0.00	0.50	0.51	0.00	0.26	0.00	0.00
Total Discharge Rate =				11.55	5182.14	Total Discharge Rate =				12.88	5781.59

Total Width (ft) **34.00**

Average Depth (ft) **1.61**

Total Area (ft²) **55.90**

Total Width (ft) **34.00**

Average Depth (ft) **1.82**

Total Area (ft²) **63.04**

Stream Name:		CC-3				Stream Name:		CC-3			
Sampling Date:		3/1/2022				Sampling Date:		12/20/2022			
Stream Stage (in feet):		0.96				Stream Stage (ft):		0.00			
CEC Project Number:		132-065.1302				Estimated Flow		7.38 cfs		3310.15 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.35	0.00	0.18	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
1.00	0.58	0.00	0.58	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.71	0.00	0.71	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.90	0.00	0.90	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.70	0.00	0.70	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	1.22	0.31	1.22	0.38	169.75	1.00	0.26	0.31	0.26	0.08	36.18
1.00	1.72	0.64	1.72	1.09	490.21	1.00	0.76	0.64	0.76	0.48	216.61
1.00	2.00	0.81	2.00	1.61	722.62	1.00	1.04	0.81	1.04	0.84	375.76
1.00	2.00	0.68	2.00	1.35	605.92	1.00	1.04	0.68	1.04	0.70	315.08
1.00	1.95	0.77	1.95	1.50	673.92	1.00	0.99	0.77	0.99	0.76	342.14
1.00	1.50	0.85	1.50	1.28	572.26	1.00	0.54	0.85	0.54	0.46	206.01
1.00	1.80	0.84	1.80	1.51	678.63	1.00	0.84	0.84	0.84	0.71	316.70
1.00	1.70	0.85	1.70	1.44	644.75	1.00	0.74	0.85	0.74	0.63	280.65
1.00	1.60	0.95	1.60	1.52	682.22	1.00	0.64	0.95	0.64	0.61	272.89
1.00	1.55	1.15	1.55	1.77	796.56	1.00	0.59	1.15	0.59	0.68	303.21
1.00	1.40	1.00	1.40	1.40	628.36	1.00	0.44	1.00	0.44	0.44	197.49
1.00	1.33	0.96	1.33	1.28	573.07	1.00	0.37	0.96	0.37	0.36	159.42
1.00	1.25	0.91	1.25	1.14	510.55	1.00	0.29	0.91	0.29	0.26	118.45
1.00	1.25	0.92	1.25	1.15	516.16	1.00	0.29	0.92	0.29	0.27	119.75
1.00	1.18	0.39	1.18	0.46	206.55	1.00	0.22	0.39	0.22	0.09	38.51
1.00	1.03	0.36	1.03	0.37	166.43	1.00	0.07	0.36	0.07	0.03	11.31
1.00	0.90	0.06	0.90	0.05	24.24	1.00	0.00	0.06	0.00	0.00	0.00
1.00	0.80	0.03	0.80	0.02	10.77	1.00	0.00	0.03	0.00	0.00	0.00
1.00	0.75	0.06	0.75	0.05	20.20	1.00	0.00	0.06	0.00	0.00	0.00
1.00	0.65	0.00	0.65	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.50	0.00	0.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.44	0.00	0.44	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.40	0.00	0.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1.00	0.27	0.00	0.27	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
0.50	0.20	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Total Discharge Rate =				19.37	8693.16	Total Discharge Rate =				7.38	3310.15

Total Width (ft) **30.00**

Average Depth (ft) **1.07**

Total Area (ft²) **32.96**

Total Width (ft) **16.00**

Average Depth (ft) **0.57**

Total Area (ft²) **9.12**

Stream Name:		CC-4				Stream Name:		CC-4			
Sampling Date:		3/2/2022				Sampling Date:		12/20/2022			
Stream Stage (in feet):		1.20				Stream Stage (ft):		0.72			
CEC Project Number:		132-065.1302				Estimated Flow		25.62	cfs	11497.95	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.50	0.86	0.30	0.43	0.13	57.90	0.50	0.38	0.30	0.19	0.06	25.58
1.00	1.15	0.42	1.15	0.48	216.79	1.00	0.67	0.42	0.67	0.28	126.30
1.00	1.48	0.52	1.48	0.77	345.42	1.00	1.00	0.52	1.00	0.52	233.39
1.00	1.80	0.42	1.80	0.76	339.32	1.00	1.32	0.42	1.32	0.55	248.83
1.00	1.98	0.26	1.98	0.51	231.06	1.00	1.50	0.26	1.50	0.39	175.04
1.00	2.05	0.33	2.05	0.68	303.63	1.00	1.57	0.33	1.57	0.52	232.54
1.00	1.96	0.54	1.96	1.05	470.64	1.00	1.48	0.54	1.48	0.79	355.38
1.00	1.95	0.76	1.95	1.48	665.17	1.00	1.47	0.76	1.47	1.12	501.43
1.00	1.89	0.69	1.89	1.29	581.08	1.00	1.41	0.69	1.41	0.97	433.50
1.00	1.78	0.82	1.78	1.46	655.11	1.00	1.30	0.82	1.30	1.07	478.45
1.00	1.75	0.74	1.75	1.29	577.31	1.00	1.27	0.74	1.27	0.93	418.96
1.00	1.71	0.88	1.71	1.50	671.56	1.00	1.23	0.88	1.23	1.08	483.05
1.00	1.69	0.93	1.69	1.56	701.64	1.00	1.21	0.93	1.21	1.12	502.35
1.00	1.69	0.98	1.69	1.66	743.35	1.00	1.21	0.98	1.21	1.19	532.22
1.00	1.61	0.96	1.61	1.55	693.71	1.00	1.13	0.96	1.13	1.08	486.89
1.00	1.59	1.04	1.59	1.65	738.62	1.00	1.11	1.04	1.11	1.15	515.64
1.00	1.57	1.10	1.57	1.73	775.13	1.00	1.09	1.10	1.09	1.20	538.15
1.00	1.56	1.20	1.56	1.87	840.21	1.00	1.08	1.20	1.08	1.30	581.68
1.00	1.50	1.11	1.50	1.67	747.30	1.00	1.02	1.11	1.02	1.13	508.17
1.00	1.50	1.23	1.50	1.84	824.73	1.00	1.02	1.23	1.02	1.25	560.81
1.00	1.48	1.18	1.48	1.75	783.84	1.00	1.00	1.18	1.00	1.18	529.62
1.00	1.13	1.18	1.13	1.33	598.47	1.00	0.65	1.18	0.65	0.77	344.25
1.00	1.32	1.23	1.32	1.62	728.72	1.00	0.84	1.23	0.84	1.03	463.73
1.00	1.31	1.08	1.31	1.41	635.01	1.00	0.83	1.08	0.83	0.90	402.33
1.00	1.21	1.20	1.21	1.45	651.70	1.00	0.73	1.20	0.73	0.88	393.18
1.00	1.20	0.87	1.20	1.04	468.58	1.00	0.72	0.87	0.72	0.63	281.15
1.00	1.08	0.94	1.08	1.02	455.65	1.00	0.60	0.94	0.60	0.56	253.14
1.00	1.02	0.90	1.02	0.92	412.03	1.00	0.54	0.90	0.54	0.49	218.13
1.00	0.95	0.89	0.95	0.85	379.49	1.00	0.47	0.89	0.47	0.42	187.75
1.00	0.90	0.67	0.90	0.60	270.65	1.00	0.42	0.67	0.42	0.28	126.30
1.00	0.88	0.69	0.88	0.61	272.53	1.00	0.40	0.69	0.40	0.28	123.88
1.00	0.94	0.60	0.94	0.56	253.14	1.00	0.46	0.60	0.46	0.28	123.88
1.00	0.86	0.50	0.86	0.43	193.00	1.00	0.38	0.50	0.38	0.19	85.28
1.00	0.78	0.20	0.78	0.16	70.02	1.00	0.30	0.20	0.30	0.06	26.93
1.00	0.46	0.17	0.46	0.08	35.10	1.00	0.00	0.17	0.00	0.00	0.00
0.50	0.10	0.03	0.05	0.00	0.67	0.50	0.00	0.03	0.00	0.00	0.00
Total Discharge Rate =				38.74	17388.27	Total Discharge Rate =				25.62	11497.95

Total Width (ft) **35.00**

Average Depth (ft) **1.35**

Total Area (ft²) **48.21**

Total Width (ft) **33.50**

Average Depth (ft) **0.94**

Total Area (ft²) **31.62**

Stream Name:			ECC-1			Stream Name:			ECC-1			
Sampling Date:			3/2/2022			Sampling Date:			12/20/2022			
Stream Stage (in feet):			1.16			Stream Stage (ft):			0.84			
CEC Project Number:			132-065.1302			Estimated Flow			17.02	cfs	7639.91	gpm
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft ²)	Discharge Rate		
				(cfs)	(gpm)					(cfs)	(gpm)	
0.50	0.50	0.00	0.25	0.00	0.00	0.50	0.18	0.00	0.09	0.00	0.00	
1.00	0.97	0.02	0.97	0.02	8.71	1.00	0.65	0.02	0.65	0.01	5.83	
1.00	1.35	0.29	1.35	0.39	175.72	1.00	1.03	0.29	1.03	0.30	134.07	
1.00	1.15	0.77	1.15	0.89	397.44	1.00	0.83	0.77	0.83	0.64	286.85	
1.00	0.92	0.77	0.92	0.71	317.95	1.00	0.60	0.77	0.60	0.46	207.36	
1.00	1.45	0.62	1.45	0.90	403.50	1.00	1.13	0.62	1.13	0.70	314.45	
1.00	1.47	0.88	1.47	1.29	580.61	1.00	1.15	0.88	1.15	1.01	454.22	
1.00	1.40	1.00	1.40	1.40	628.36	1.00	1.08	1.00	1.08	1.08	484.74	
1.00	1.46	1.02	1.46	1.49	668.40	1.00	1.14	1.02	1.14	1.16	521.90	
1.00	1.45	1.04	1.45	1.51	676.84	1.00	1.13	1.04	1.13	1.18	527.47	
1.00	1.35	1.08	1.35	1.46	654.40	1.00	1.03	1.08	1.03	1.11	499.28	
1.00	1.35	0.94	1.35	1.27	569.57	1.00	1.03	0.94	1.03	0.97	434.56	
1.00	1.35	1.10	1.35	1.49	666.51	1.00	1.03	1.10	1.03	1.13	508.53	
1.00	1.48	0.94	1.48	1.39	624.41	1.00	1.16	0.94	1.16	1.09	489.41	
1.00	1.60	0.80	1.60	1.28	574.50	1.00	1.28	0.80	1.28	1.02	459.60	
1.00	1.50	0.86	1.50	1.28	575.63	1.00	1.18	0.86	1.18	1.01	452.83	
1.00	1.55	0.81	1.55	1.26	563.51	1.00	1.23	0.81	1.23	1.00	447.17	
1.00	1.40	0.80	1.40	1.12	502.69	1.00	1.08	0.80	1.08	0.86	387.79	
1.00	1.20	0.75	1.20	0.90	403.95	1.00	0.88	0.75	0.88	0.66	296.23	
1.00	1.18	0.59	1.18	0.70	312.48	1.00	0.86	0.59	0.86	0.51	227.74	
1.00	1.02	0.65	1.02	0.66	297.57	1.00	0.70	0.65	0.70	0.46	204.22	
1.00	0.82	0.60	0.82	0.49	220.82	1.00	0.50	0.60	0.50	0.30	134.65	
1.00	0.67	0.57	0.67	0.38	171.41	1.00	0.35	0.57	0.35	0.20	89.54	
1.00	0.56	0.51	0.56	0.29	128.19	1.00	0.24	0.51	0.24	0.12	54.94	
1.00	0.41	0.41	0.41	0.17	75.45	1.00	0.09	0.41	0.09	0.04	16.56	
1.00	0.30	0.36	0.30	0.11	48.47	1.00	0.00	0.36	0.00	0.00	0.00	
0.50	0.10	0.00	0.05	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	
Total Discharge Rate =				22.83	10247.08	Total Discharge Rate =				17.02	7639.91	

Total Width (ft) **26.00**
 Average Depth (ft) **1.11**
 Total Area (ft²) **29.66**

Total Width (ft) **24.50**
 Average Depth (ft) **0.86**
 Total Area (ft²) **21.47**

Stream Name:		MCC-1				Stream Name:		MCC-1			
Sampling Date:		3/1/2022				Sampling Date:		#####			
Stream Stage (in feet):		0.56				Stream Stage (ft):		0.86			
CEC Project Number:		132-065.1302				Estimated Flow		4.54 cfs		2038.17 gpm	
Width (ft)	Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate		Width (ft)	Ratio Depth (ft)	Velocity (ft/s)	Cross Sectional Area (ft²)	Discharge Rate	
				(cfs)	(gpm)					(cfs)	(gpm)
0.25	0.05	0.25	0.01	0.00	1.41	0.25	0.35	0.25	0.09	0.02	9.85
0.50	0.05	0.25	0.03	0.01	2.81	0.50	0.35	0.25	0.18	0.04	19.70
0.50	0.10	0.65	0.05	0.03	14.59	0.50	0.40	0.65	0.20	0.13	58.35
0.50	0.15	1.25	0.08	0.09	42.08	0.50	0.45	1.25	0.23	0.28	126.23
0.50	0.20	0.77	0.10	0.08	34.56	0.50	0.50	0.77	0.25	0.19	86.40
0.50	0.20	1.18	0.10	0.12	52.96	0.50	0.50	1.18	0.25	0.30	132.41
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.55	1.32	0.28	0.36	162.93
0.50	0.30	1.41	0.15	0.21	94.93	0.50	0.60	1.41	0.30	0.42	189.86
0.50	0.40	1.47	0.20	0.29	131.96	0.50	0.70	1.47	0.35	0.51	230.92
0.50	0.30	1.34	0.15	0.20	90.22	0.50	0.60	1.34	0.30	0.40	180.43
0.50	0.30	1.33	0.15	0.20	89.54	0.50	0.60	1.33	0.30	0.40	179.08
0.50	0.25	1.32	0.13	0.17	74.06	0.50	0.55	1.32	0.28	0.36	162.93
0.50	0.25	1.51	0.13	0.19	84.72	0.50	0.55	1.51	0.28	0.42	186.38
0.50	0.20	1.41	0.10	0.14	63.29	0.50	0.50	1.41	0.25	0.35	158.21
0.50	0.15	0.86	0.08	0.06	28.95	0.50	0.45	0.86	0.23	0.19	86.85
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.35	0.19	0.18	0.03	15.03
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.35	0.19	0.18	0.03	15.03
0.50	0.05	0.19	0.03	0.00	2.15	0.50	0.35	0.19	0.18	0.03	15.03
0.25	0.05	0.19	0.01	0.00	1.07	0.25	0.35	0.19	0.09	0.02	7.52
Total Discharge Rate =				1.98	889.78	Total Discharge Rate =				4.54	2038.17

Total Width (ft) **9.50**

Average Depth (ft) **0.17**

Total Area (ft²) **1.68**

Total Width (ft) **9.50**

Average Depth (ft) **0.47**

Total Area (ft²) **4.53**

APPENDIX C

LABORATORY ANALYTICAL REPORTS



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 4/27/2022

Page 1 of 31

Report Narrative

HawkMtn WO #: 2202-01227
Subject Line: Montour 2022 Surface Water Project

Lab pH hold time is immediate (defined as 15 minutes from sampling time).

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on "a dry weight" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc. and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.

PA DEP 40-417
EPA PA00169



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

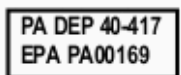
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-001
Date Sampled: 03/10/2022 Time Sampled: 9:20 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: ECC-1
Client Sample ID: ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	4.73 NTU			0			SH	3/10/22	9:20
Specific Conductance, Field	164.2 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	9:20
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	16.5 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	16.3 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.0350 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.184 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0610 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0590 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	55.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0202 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0201 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	3/14/22	12:06
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	3/14/22	12:06





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 4/27/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-001
Date Sampled:	03/10/2022	Time Sampled:	9:20
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	ECC-1	Sample Point ID:	ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	End
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	3/14/22	12:06	
Chloride	12.5 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/11/22	19:54	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	11:12	
Sulfate	16.0 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	11:12	
Radium 226	0.000 +/- 0.212 pCi/L		1	0.341	EPA 903.1		65-00282	4/12/22	13:01	0:00
Radium 228	0.275 +/- 0.356 pCi/L		1	0.757	EPA 904.0		65-00282	4/6/22	14:27	0:00
Dissolved oxygen	13.67 mg/L				Field Meter	N	SH	3/10/22	9:20	
ORP (ReDox)	271.1 mv				Field Meter	N	SH	3/10/22	9:20	
Temp, Field	2.5 C			0	Field Meter		SH	3/10/22	9:20	
Turbidity	6.0 NTU		1	1.0	SM 2130 B		LB	3/11/22	11:26	3/11/22 12:12
Alkalinity as CaCO3	31.8 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	15:25	
Total Dissolved Solids	99 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	6.93 su				SM 4500-H+B		SH	3/10/22	9:20	
pH, Lab	7.15 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:33	3/14/22 14:20
Radium, Total	0.275 +/- 0.568 pCi/L		1	1.10	Total Radium Calculation		65-00282	4/14/22	6:37	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

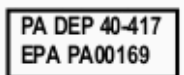
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-002
Date Sampled: 03/10/2022 Time Sampled: 9:20 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: ECC-1D
Client Sample ID: ECC-1D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	4.73 NTU			0			SH	3/10/22	9:20
Specific Conductance, Field	164.2 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	9:20
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	16.0 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	16.9 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.0310 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.192 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0580 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0610 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	57.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0200 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0207 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	3/14/22	12:06
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	3/14/22	12:06





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 4/27/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-002
Date Sampled:	03/10/2022	Time Sampled:	9:20
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	ECC-1D	Sample Point ID:	ECC-1D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	3/14/22	12:06	
Chloride	12.6 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/11/22	20:08	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	11:26	
Sulfate	16.0 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	11:26	
Radium 226	0.0980+/-0.359 pCi/L		1	0.691	EPA 903.1		65-00282	4/12/22	13:01	0:00
Radium 228	0.619 +/- 0.401 pCi/L		1	0.758	EPA 904.0		65-00282	4/6/22	14:28	0:00
Dissolved oxygen	13.67 mg/L				Field Meter	N	SH	3/10/22	9:20	
ORP (ReDox)	271.1 mv				Field Meter	N	SH	3/10/22	9:20	
Temp, Field	2.5 C			0	Field Meter		SH	3/10/22	9:20	
Turbidity	6.0 NTU		1	1.0	SM 2130 B		LB	3/11/22	11:27	3/11/22 12:12
Alkalinity as CaCO3	31.8 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	17:20	
Total Dissolved Solids	125 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	6.93 su				SM 4500-H+B		SH	3/10/22	9:20	
pH, Lab	7.36 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:37	3/14/22 14:20
Radium, Total	0.717 +/- 0.760 pCi/L		1	1.45	Total Radium Calculation		65-00282	4/14/22	6:37	0:00

These results relate only to the sample noted above.

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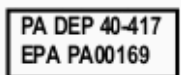
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-003
Date Sampled: 03/10/2022 Time Sampled: 10:12 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: MCC-1
Client Sample ID: MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	13.05 NTU			0			SH	3/10/22	10:12
Specific Conductance, Field	239.7 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	10:12
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	24.1 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	23.7 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.150 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.589 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0810 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0810 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	82.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0288 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0304 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	0.00192 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	0.00224 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-003
Date Sampled:	03/10/2022	Time Sampled:	10:12
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	MCC-1	Sample Point ID:	MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	21.9 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/11/22	20:22	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	11:40	
Sulfate	24.3 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	11:40	
Radium 226	1.30 +/- 1.57 pCi/L		1	0.883	EPA 903.1		65-00282	4/12/22	13:59	0:00
Radium 228	-0.117 +/- 4.04 pCi/L		1	9.29	EPA 904.0		65-00282	4/6/22	11:46	0:00
Dissolved oxygen	13.18 mg/L				Field Meter	N	SH	3/10/22	10:12	
ORP (ReDox)	225.3 mv				Field Meter	N	SH	3/10/22	10:12	
Temp, Field	2.4 C			0	Field Meter		SH	3/10/22	10:12	
Turbidity	17 NTU		1	1.0	SM 2130 B		LB	3/11/22	11:28	3/11/22 12:12
Alkalinity as CaCO3	47.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	17:27	
Total Dissolved Solids	148 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	6.63 su				SM 4500-H+B		SH	3/10/22	10:12	
pH, Lab	7.34 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:39	3/14/22 14:20
Radium, Total	1.30 +/- 5.61 pCi/L		1	10.2	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

These results relate only to the sample noted above.

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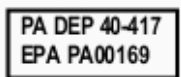
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-004
Date Sampled: 03/10/2022 Time Sampled: 10:39 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: CC-1
Client Sample ID: CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	12.06 NTU			0			SH	3/10/22	10:39
Specific Conductance, Field	186.7 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	10:39
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	19.4 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	18.7 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.100 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.395 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0660 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0640 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	62.8 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0226 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0237 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Lithium, Total	0.00107 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 4/27/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-004
Date Sampled:	03/10/2022	Time Sampled:	10:39
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	CC-1	Sample Point ID:	CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	15.0 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/15/22	23:24	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	13:05	
Sulfate	17.7 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	13:05	
Radium 226	2.71 +/- 1.80 pCi/L		1	0.817	EPA 903.1		65-00282	4/12/22	13:59	0:00
Radium 228	3.37 +/- 3.92 pCi/L		1	8.30	EPA 904.0		65-00282	4/6/22	11:46	0:00
Dissolved oxygen	13.31 mg/L				Field Meter	N	SH	3/10/22	10:39	
ORP (ReDox)	165.5 mv				Field Meter	N	SH	3/10/22	10:39	
Temp, Field	2.9 C			0	Field Meter		SH	3/10/22	10:39	
Turbidity	12 NTU		1	1.0	SM 2130 B		LB	3/11/22	11:55	3/11/22 12:12
Alkalinity as CaCO3	37.4 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	17:35	
Total Dissolved Solids	115 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	6.66 su				SM 4500-H+B		SH	3/10/22	10:39	
pH, Lab	7.34 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:42	3/14/22 14:20
Radium, Total	6.08 +/- 5.72 pCi/L		1	9.12	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

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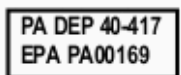
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-005
Date Sampled: 03/10/2022 Time Sampled: 11:20 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: CC-2
Client Sample ID: CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	12.98 NTU			0			SH	3/10/22	11:20
Specific Conductance, Field	190.0 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	11:20
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	19.4 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	19.6 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.0680 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.399 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0680 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0670 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	65.9 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0236 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0250 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Lithium, Total	0.00116 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 4/27/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-005
Date Sampled:	03/10/2022	Time Sampled:	11:20
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	CC-2	Sample Point ID:	CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Chloride	15.5 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/15/22	23:38
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	13:19
Sulfate	17.7 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	13:19
Radium 226	0.858 +/- 1.37 pCi/L		1	0.775	EPA 903.1		65-00282	4/12/22	13:59 0:00
Radium 228	11.8 +/- 5.49 pCi/L		1	9.40	EPA 904.0		65-00282	4/6/22	14:56 0:00
Dissolved oxygen	13.29 mg/L				Field Meter	N	SH	3/10/22	11:20
ORP (ReDox)	215.0 mv				Field Meter	N	SH	3/10/22	11:20
Temp, Field	3.5 C			0	Field Meter		SH	3/10/22	11:20
Turbidity	15 NTU		1	1.0	SM 2130 B		LB	3/11/22	11:56 3/11/22 12:12
Alkalinity as CaCO3	37.6 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	17:44
Total Dissolved Solids	111 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30
pH, Field	6.76 su				SM 4500-H+B		SH	3/10/22	11:20
pH, Lab	7.33 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:44 3/14/22 14:20
Radium, Total	12.7 +/- 6.86 pCi/L		1	10.2	Total Radium Calculation		65-00282	4/19/22	12:00 0:00

These results relate only to the sample noted above.

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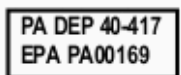
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-006
Date Sampled: 03/10/2022 Time Sampled: 12:02 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: CC-3
Client Sample ID: CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	10.77 NTU			0			SH	3/10/22	12:02
Specific Conductance, Field	209.0 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	12:02
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	23.0 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	23.2 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.0600 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.404 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0780 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0820 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	77.2 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0230 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0251 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	0.00116 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	0.00155 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-006
Date Sampled:	03/10/2022	Time Sampled:	12:02
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	CC-3	Sample Point ID:	CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	End
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	15.5 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/15/22	23:52	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	13:33	
Sulfate	25.3 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	13:33	
Radium 226	2.43 +/- 1.61 pCi/L		1	0.731	EPA 903.1		65-00282	4/12/22	13:59	0:00
Radium 228	2.11 +/- 6.55 pCi/L		1	14.7	EPA 904.0		65-00282	4/6/22	14:56	0:00
Dissolved oxygen	12.80 mg/L				Field Meter	N	SH	3/10/22	12:02	
ORP (ReDox)	220.8 mv				Field Meter	N	SH	3/10/22	12:02	
Temp, Field	6.9 C			0	Field Meter		SH	3/10/22	12:02	
Turbidity	12 NTU		1	1.0	SM 2130 B		LB	3/11/22	11:57	3/11/22 12:12
Alkalinity as CaCO3	40.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	17:52	
Total Dissolved Solids	127 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	6.98 su				SM 4500-H+B		SH	3/10/22	12:02	
pH, Lab	7.40 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:46	3/14/22 14:20
Radium, Total	4.54 +/- 8.16 pCi/L		1	15.4	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

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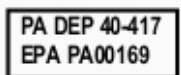
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-007
Date Sampled: 03/10/2022 Time Sampled: 12:38 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: CC-4
Client Sample ID: CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	10.69 NTU			0			SH	3/10/22	12:38
Specific Conductance, Field	206.3 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	12:38
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	23.0 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	22.0 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.0690 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.438 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0820 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0730 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	73.2 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0236 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0236 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	0.00122 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Lithium, Total	0.00148 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





Customer: Montour, LLC
18 McMichael Road
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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-007
Date Sampled:	03/10/2022	Time Sampled:	12:38
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	CC-4	Sample Point ID:	CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Chloride	15.3 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/16/22	0:06
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	13:47
Sulfate	25.3 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	13:47
Radium 226	-0.0684+/-0.211 pCi/L		1	0.493	EPA 903.1		65-00282	4/12/22	14:26 0:00
Radium 228	0.348 +/- 0.619 pCi/L		1	1.35	EPA 904.0		65-00282	4/6/22	14:57 0:00
Dissolved oxygen	12.81 mg/L				Field Meter	N	SH	3/10/22	12:38
ORP (ReDox)	223.2 mv				Field Meter	N	SH	3/10/22	12:38
Temp, Field	4.9 C			0	Field Meter		SH	3/10/22	12:38
Turbidity	12 NTU		1	1.0	SM 2130 B		LB	3/11/22	11:58 3/11/22 12:12
Alkalinity as CaCO3	40.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	18:00
Total Dissolved Solids	142 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30
pH, Field	7.05 su				SM 4500-H+B		SH	3/10/22	12:38
pH, Lab	7.46 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:48 3/14/22 14:20
Radium, Total	0.348 +/- 0.830 pCi/L		1	1.84	Total Radium Calculation		65-00282	4/19/22	12:00 0:00

These results relate only to the sample noted above.

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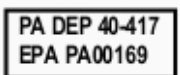
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-008
Date Sampled: 03/10/2022 Time Sampled: 9:43 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: Trib 18790
Client Sample ID: Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	15.19 NTU			0			SH	3/10/22	9:43
Specific Conductance, Field	470.7 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	9:43
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	50.4 mg/L	0.0384	10	0.100	EPA 200.7		NL	3/16/22	23:22
Calcium, Total	48.8 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.170 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.749 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.122 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.117 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	137 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Barium, Dissolved	0.0349 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0390 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/22/22	22:29
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	0.00106 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





Customer: Montour, LLC
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Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-008
Date Sampled:	03/10/2022	Time Sampled:	9:43
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	Trib 18790	Sample Point ID:	Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	73.1 mg/L	0.0352	10	1.0	EPA 300.0		MK	3/16/22	0:21	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	14:01	
Sulfate	25.3 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	14:01	
Radium 226	0.639 +/- 1.53 pCi/L		1	0.865	EPA 903.1		65-00282	4/12/22	14:26	0:00
Radium 228	0.977 +/- 4.19 pCi/L		1	9.47	EPA 904.0		65-00282	4/6/22	14:57	0:00
Dissolved oxygen	14.70 mg/L				Field Meter	N	SH	3/10/22	9:43	
ORP (ReDox)	235.9 mv				Field Meter	N	SH	3/10/22	9:43	
Temp, Field	2.7 C			0	Field Meter		SH	3/10/22	9:43	
Turbidity	19 NTU		1	1.0	SM 2130 B		LB	3/11/22	12:01	3/11/22 12:12
Alkalinity as CaCO3	95.7 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	18:08	
Total Dissolved Solids	287 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	6.73 su				SM 4500-H+B		SH	3/10/22	9:43	
pH, Lab	7.73 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:50	3/14/22 14:20
Radium, Total	1.62 +/- 5.72 pCi/L		1	10.3	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

These results relate only to the sample noted above.

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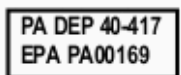
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-009
Date Sampled: 03/10/2022 Time Sampled: 14:49 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: Trib 18787 (1)
Client Sample ID: Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	24.10 NTU			0			SH	3/10/22	14:49
Specific Conductance, Field	260.9 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	14:49
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	33.1 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	29.5 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.104 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.954 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.0740 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.0770 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	98.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0363 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0420 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-009
Date Sampled:	03/10/2022	Time Sampled:	14:49
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (1)	Sample Point ID:	Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	End
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	25.8 mg/L	0.0352	10	1.0	EPA 300.0		MK	3/16/22	21:40	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	14:15	
Sulfate	18.3 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	14:15	
Radium 226	0.331 +/- 1.58 pCi/L		1	0.896	EPA 903.1		65-00282	4/12/22	14:26	0:00
Radium 228	4.32 +/- 4.70 pCi/L		1	9.83	EPA 904.0		65-00282	4/6/22	14:57	0:00
Dissolved oxygen	15.03 mg/L				Field Meter	N	SH	3/10/22	14:49	
ORP (ReDox)	210.4 mv				Field Meter	N	SH	3/10/22	14:49	
Temp, Field	8.7 C			0	Field Meter		SH	3/10/22	14:49	
Turbidity	27 NTU		1	1.0	SM 2130 B		LB	3/11/22	12:02	3/11/22 12:12
Alkalinity as CaCO3	58.1 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	18:18	
Total Dissolved Solids	197 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	6.1 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	7.54 su				SM 4500-H+B		SH	3/10/22	14:49	
pH, Lab	7.66 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:52	3/14/22 14:20
Radium, Total	4.65 +/- 6.28 pCi/L		1	10.7	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

These results relate only to the sample noted above.

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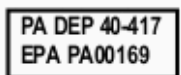
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-010
Date Sampled: 03/10/2022 Time Sampled: 14:19 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: Trib 18787 (2)
Client Sample ID: Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	21.20 NTU			0			SH	3/10/22	14:19
Specific Conductance, Field	288.7 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	14:19
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	40.1 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	40.3 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	0.0890 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.848 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.114 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.116 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	128 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Barium, Dissolved	0.0341 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0391 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	0.00143 mg/L	0.000789	1	0.001	EPA 200.8	IS1	KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





Customer: Montour, LLC
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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-010
Date Sampled:	03/10/2022	Time Sampled:	14:19
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (2)	Sample Point ID:	Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	15.6 mg/L	0.0352	5	1.0	EPA 300.0		MK	3/16/22	21:55	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	14:30	
Sulfate	58.8 mg/L	0.252	5	5.0	EPA 300.0		MK	3/16/22	21:55	
Radium 226	0.000 +/- 1.09 pCi/L		1	1.81	EPA 903.1		65-00282	4/12/22	14:21	0:00
Radium 228	-0.139 +/- 2.61 pCi/L		1	6.13	EPA 904.0		65-00282	4/6/22	14:57	0:00
Dissolved oxygen	14.55 mg/L				Field Meter	N	SH	3/10/22	14:19	
ORP (ReDox)	189.4 mv				Field Meter	N	SH	3/10/22	14:19	
Temp, Field	8.2 C			0	Field Meter		SH	3/10/22	14:19	
Turbidity	27 NTU		1	1.0	SM 2130 B		LB	3/11/22	12:04	3/11/22 12:12
Alkalinity as CaCO3	47.6 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	18:27	
Total Dissolved Solids	220 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	7.62 su				SM 4500-H+B		SH	3/10/22	14:19	
pH, Lab	7.73 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	13:53	3/14/22 14:20
Radium, Total	0.000 +/- 3.70 pCi/L		1	7.94	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

These results relate only to the sample noted above.

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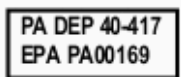
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-011
Date Sampled: 03/10/2022 Time Sampled: 13:56 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: Trib 18787 (3)
Client Sample ID: Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	18.75 NTU			0			SH	3/10/22	13:56
Specific Conductance, Field	631.0 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	13:56
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	102.0 mg/L	0.0384	10	0.100	EPA 200.7		NL	3/16/22	23:22
Calcium, Total	110.0 mg/L	0.0384	10	0.100	EPA 200.7		NL	3/16/22	23:22
Iron, Dissolved	0.0640 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.641 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.327 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.329 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	318 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Dissolved	0.0346 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0377 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	0.00124 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	0.0121 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	0.0125 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	0.00998 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	0.00962 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





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Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-011
Date Sampled:	03/10/2022	Time Sampled:	13:56
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (3)	Sample Point ID:	Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7	M1	NL	4/4/22	14:15	
Chloride	31.5 mg/L	0.0352	10	1.0	EPA 300.0		MK	3/16/22	22:09	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	14:44	
Sulfate	208 mg/L	0.252	10	5.0	EPA 300.0		MK	3/16/22	22:09	
Radium 226	0.954 +/- 1.24 pCi/L		1	1.77	EPA 903.1		65-00282	4/12/22	14:21	0:00
Radium 228	1.03 +/- 3.48 pCi/L		1	7.84	EPA 904.0		65-00282	4/6/22	14:57	0:00
Dissolved oxygen	13.41 mg/L				Field Meter	N	SH	3/10/22	13:56	
ORP (ReDox)	206.4 mv				Field Meter	N	SH	3/10/22	13:56	
Temp, Field	7.3 C			0	Field Meter		SH	3/10/22	13:56	
Turbidity	29 NTU		1	1.0	SM 2130 B		LB	3/11/22	12:05	3/11/22 12:12
Alkalinity as CaCO3	82.2 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	18:36	
Total Dissolved Solids	452 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	8.5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	7.53 su				SM 4500-H+B		SH	3/10/22	13:56	
pH, Lab	7.66 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	14:00	3/14/22 14:20
Radium, Total	1.98 +/- 4.72 pCi/L		1	9.61	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

These results relate only to the sample noted above.

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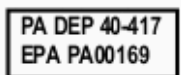
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-012
Date Sampled: 03/10/2022 Time Sampled: 13:27 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: Trib 18788
Client Sample ID: Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Turbidity, Field	4.03 NTU			0			SH	3/10/22	13:27
Specific Conductance, Field	951.0 uS/cm			5	EPA 120.1, FIELD		SH	3/10/22	13:27
Boron, Dissolved	0.101 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	202.0 mg/L	0.0384	10	0.100	EPA 200.7		NL	3/16/22	23:22
Calcium, Total	205.3 mg/L	0.0384	10	0.100	EPA 200.7		NL	3/16/22	23:22
Iron, Dissolved	0.0300 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	0.125 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	0.564 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	0.556 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	588 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Barium, Dissolved	0.0327 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	0.0333 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	0.00291 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	0.00297 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	0.0140 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	0.0143 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	0.00412 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	0.00413 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-012
Date Sampled:	03/10/2022	Time Sampled:	13:27
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	Trib 18788	Sample Point ID:	Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	36.9 mg/L	0.0352	20	1.0	EPA 300.0		MK	3/16/22	22:23	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	14:58	
Sulfate	366 mg/L	0.252	20	5.0	EPA 300.0		MK	3/16/22	22:23	
Radium 226	0.000 +/- 0.409 pCi/L		1	0.764	EPA 903.1		65-00282	4/12/22	14:26	0:00
Radium 228	0.340 +/- 0.468 pCi/L		1	1.00	EPA 904.0		65-00282	4/6/22	14:57	0:00
Dissolved oxygen	12.61 mg/L				Field Meter	N	SH	3/10/22	13:27	
ORP (ReDox)	226.9 mv				Field Meter	N	SH	3/10/22	13:27	
Temp, Field	8.6 C			0	Field Meter		SH	3/10/22	13:27	
Turbidity	2.2 NTU		1	1.0	SM 2130 B		LB	3/11/22	12:06	3/11/22 12:12
Alkalinity as CaCO3	153 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/16/22	18:46	
Total Dissolved Solids	798 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30	
pH, Field	7.07 su				SM 4500-H+B		SH	3/10/22	13:27	
pH, Lab	7.78 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	14:02	3/14/22 14:20
Radium, Total	0.340 +/- 0.877 pCi/L		1	1.76	Total Radium Calculation		65-00282	4/19/22	12:00	0:00

These results relate only to the sample noted above.

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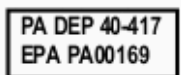
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-013
Date Sampled: 03/22/2022 Time Sampled: 9:52 Sampler: NL
Date Received: 03/22/2022 Sample Point ID: MO 3-5
Client Sample ID: MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/26/22	1:53
Turbidity, Field	17.8 NTU			0			NL	3/22/22	9:52
Specific Conductance, Field	1595 uS/cm			5	EPA 120.1, FIELD		NL	3/22/22	9:52
Boron, Dissolved	0.303 mg/L	0.0483	1	0.100	EPA 200.7		NL	4/7/22	22:31
Boron, Total	0.262 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/28/22	21:14
Calcium, Dissolved	342 mg/L	0.0384	20	0.500	EPA 200.7		NL	4/7/22	22:31
Calcium, Total	342 mg/L	0.0384	20	0.100	EPA 200.7		NL	3/30/22	16:56
Iron, Dissolved	0.850 mg/L	0.00102	1	0.020	EPA 200.7		NL	4/7/22	22:31
Iron, Total	2.53 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/28/22	21:14
Strontium, Dissolved	0.994 mg/L	0.00245	1	0.020	EPA 200.7		NL	4/7/22	22:31
Strontium, Total	0.955 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/28/22	21:14
Hardness, Total as CaCO3	984 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/28/22	21:14
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Barium, Dissolved	0.0231 mg/L	0.000227	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Barium, Total	0.0280 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Cobalt, Dissolved	0.0203 mg/L	0.000127	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Cobalt, Total	0.0190 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Lithium, Dissolved	0.0247 mg/L	0.000789	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Lithium, Total	0.00235 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Molybdenum, Dissolved	0.00265 mg/L	0.000300	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Molybdenum, Total	0.0108 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	4/14/22	1:40
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/26/22	1:53
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





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Report Date: 4/27/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-013
Date Sampled:	03/22/2022	Time Sampled:	9:52
Date Received:	03/22/2022	Sampler:	NL
Client Sample ID:	MO 3-5	Sample Point ID:	MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	35.8 mg/L	0.0352	10	1.0	EPA 300.0		MK	3/22/22	19:54	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/22/22	19:40	
Sulfate	785 mg/L	0.252	50	5.0	EPA 300.0		MK	3/22/22	20:08	
Radium 226	0.198 +/- 0.343 pCi/L		1	0.612	EPA 903.1		65-00282	4/19/22	13:49	0:00
Radium 228	0.256 +/- 0.287 pCi/L		1	0.598	EPA 904.0		65-00282	4/19/22	13:49	0:00
Dissolved oxygen	9.67 mg/L				Field Meter	N	NL	3/22/22	9:52	
ORP (ReDox)	106 mv				Field Meter	N	NL	3/22/22	9:52	
Temp, Field	9.6 C			0	Field Meter		NL	3/22/22	9:52	
Turbidity	50 NTU		1	1.0	SM 2130 B		LB	3/23/22	12:02	3/23/22 12:08
Alkalinity as CaCO3	173 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/29/22	14:14	
Total Dissolved Solids	1350 mg/L	1.0	1	10	SM 2540 C		JMR	3/24/22	10:20	
Total Suspended Solids	10.0 mg/L	2.0	1	5	SM 2540 D		JMR	3/24/22	8:55	
pH, Field	6.99 su				SM 4500-H+B		NL	3/22/22	9:52	
pH, Lab	7.39 su	0.1	1		SM 4500-H+B	H1	LB	3/23/22	11:35	3/23/22 12:13
Radium, Total	0.454 +/- 0.630 pCi/L		1	1.21	Total Radium Calculation		65-00282	4/20/22	12:24	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

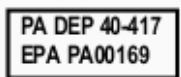
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-014
Date Sampled: 03/22/2022 Time Sampled: 9:52 Sampler: NL
Date Received: 03/22/2022 Sample Point ID: MO 3-5D
Client Sample ID: MO 3-5D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/26/22	1:53
Turbidity, Field	17.8 NTU			0			NL	3/22/22	9:52
Specific Conductance, Field	1595 uS/cm			5	EPA 120.1, FIELD		NL	3/22/22	9:52
Boron, Dissolved	0.303 mg/L	0.0483	1	0.100	EPA 200.7		NL	4/7/22	22:31
Boron, Total	0.270 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/28/22	21:14
Calcium, Dissolved	322 mg/L	0.0384	20	0.500	EPA 200.7		NL	4/7/22	22:31
Calcium, Total	317 mg/L	0.0384	20	0.100	EPA 200.7		NL	3/30/22	16:56
Iron, Dissolved	0.889 mg/L	0.00102	1	0.020	EPA 200.7		NL	4/7/22	22:31
Iron, Total	2.57 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/28/22	21:14
Strontium, Dissolved	1.00 mg/L	0.00245	1	0.020	EPA 200.7		NL	4/7/22	22:31
Strontium, Total	0.989 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/28/22	21:14
Hardness, Total as CaCO3	925 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/28/22	21:14
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Barium, Dissolved	0.0233 mg/L	0.000227	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Barium, Total	0.0276 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Cobalt, Dissolved	0.0193 mg/L	0.000127	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Cobalt, Total	0.0198 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Lithium, Dissolved	0.0233 mg/L	0.000789	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Lithium, Total	0.00238 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Molybdenum, Dissolved	0.00251 mg/L	0.000300	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Molybdenum, Total	0.0105 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	4/14/22	1:40
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/26/22	1:53
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	4/14/22	1:40
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/26/22	1:53
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 4/27/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-014
Date Sampled:	03/22/2022	Time Sampled:	9:52
Date Received:	03/22/2022	Sampler:	NL
Client Sample ID:	MO 3-5D	Sample Point ID:	MO 3-5D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time		
								Start	End	End
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15	
Chloride	37.1 mg/L	0.0352	10	1.0	EPA 300.0		MK	3/22/22	20:36	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/22/22	20:22	
Sulfate	816 mg/L	0.252	50	5.0	EPA 300.0		MK	3/22/22	22:01	
Radium 226	0.269 +/- 0.381 pCi/L		1	0.646	EPA 903.1		65-00282	4/19/22	13:49	0:00
Radium 228	0.277 +/- 0.309 pCi/L		1	0.648	EPA 904.0		65-00282	4/19/22	13:50	0:00
Dissolved oxygen	9.67 mg/L				Field Meter	N	NL	3/22/22	9:52	
ORP (ReDox)	106 mv				Field Meter	N	NL	3/22/22	9:52	
Temp, Field	9.6 C			0	Field Meter		NL	3/22/22	9:52	
Turbidity	29 NTU		1	1.0	SM 2130 B		LB	3/23/22	12:04	3/23/22 12:08
Alkalinity as CaCO3	173 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/29/22	14:31	
Total Dissolved Solids	1380 mg/L	1.0	1	10	SM 2540 C		JMR	3/24/22	10:20	
Total Suspended Solids	14.9 mg/L	2.0	1	5	SM 2540 D		JMR	3/24/22	8:55	
pH, Field	6.99 su				SM 4500-H+B		NL	3/22/22	9:52	
pH, Lab	7.25 su	0.1	1		SM 4500-H+B	H1	LB	3/23/22	11:37	3/23/22 12:13
Radium, Total	0.546 +/- 0.690 pCi/L		1	1.29	Total Radium Calculation		65-00282	4/20/22	12:24	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

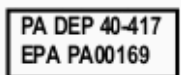
Report Date: 4/27/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2202-01227-015
Date Sampled: 03/10/2022 Time Sampled: 15:05 Sampler: SH
Date Received: 03/10/2022 Sample Point ID: SW FB
Client Sample ID: SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Talen Total & Diss. Metals			1				KLM	3/14/22	23:47
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Dissolved	<0.100 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Calcium, Total	<0.100 mg/L	0.0384	1	0.100	EPA 200.7		NL	3/15/22	19:57
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		NL	3/15/22	19:57
Iron, Total	<0.020 mg/L	0.0122	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Dissolved	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Strontium, Total	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		NL	3/15/22	19:57
Hardness, Total as CaCO3	<1.5 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	3/15/22	19:57
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Barium, Dissolved	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Barium, Total	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	3/14/22	23:47 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	3/14/22	23:47 0:00
Mercury, Field Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Reagent Blank	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Mercury, Total - NPDES	<0.0001 mg/L	0.0000327	1	0.0001	EPA 245.7		NL	4/4/22	14:15
Chloride	<1.0 mg/L	0.0352	1	1.0	EPA 300.0		MK	3/11/22	16:22





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 4/27/2022

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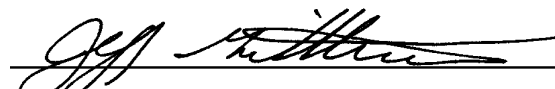
Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2202-01227-015
Date Sampled:	03/10/2022	Time Sampled:	15:05
Date Received:	03/10/2022	Sampler:	SH
Client Sample ID:	SW FB	Sample Point ID:	SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Analysis Date & Time	
								Start	End
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		MK	3/11/22	16:22
Sulfate	<5.0 mg/L	0.252	1	5.0	EPA 300.0		MK	3/11/22	16:22
Radium 226	-0.0673+/-0.364 pCi/L		1	0.720	EPA 903.1		65-00282	4/12/22	14:26
Radium 228	0.326 +/- 0.409 pCi/L		1	0.868	EPA 904.0		65-00282	4/6/22	14:57
Turbidity	<1.0 NTU		1	1.0	SM 2130 B		LB	3/11/22	12:07
Alkalinity as CaCO3	<20.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	3/18/22	11:21
Total Dissolved Solids	24 mg/L	1.0	1	10	SM 2540 C		JMR	3/14/22	10:30
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		JMR	3/14/22	10:30
pH, Lab	6.14 su	0.1	1		SM 4500-H+B	H1	JBB	3/14/22	14:04
Radium, Total	0.326 +/- 0.773 pCi/L		1	1.59	Total Radium Calculation		65-00282	4/19/22	12:01

These results relate only to the sample noted above.

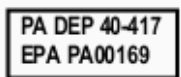
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Jeffrey Gittleman, Laboratory Director

65-00282 = Pace Analytical, PA

- A1 = Alkalinity is determined to a pH endpoint of 4.5 su.
- H1 = Sample was received after the expiration of the holding time.
- IS1 = The associated internal standard was above method acceptance limits. Results are estimated.
- M1 = The MS recovery was above the acceptance limits. Result may be biased high
- N = Hawk Mtn. Labs does not hold accreditation from the PA-DEP for the field of accreditation.



April 20, 2022

Ms. Amanda Paranac
HAWKMTN LABS INC
201 West Clay Avenue
Hazle Twp, PA 18202

RE: Project: 2202-1227
Pace Project No.: 30475205

Dear Ms. Paranac:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2022. 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 - Greensburg

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

Sincerely,



Steven L. Smith
steve.l.smith@pacelabs.com
(724)850-5600
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2202-1227
Pace Project No.: 30475205

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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2202-1227

Pace Project No.: 30475205

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30475205001	2202-1227-13	Water	03/22/22 09:52	03/23/22 22:00
30475205002	2202-1227-14	Water	03/22/22 09:52	03/23/22 22:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2202-1227

Pace Project No.: 30475205

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30475205001	2202-1227-13	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30475205002	2202-1227-14	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2202-1227
Pace Project No.: 30475205

Method: EPA 903.1
Description: 903.1 Radium 226
Client: HAWKMTN Labs. Inc.
Date: April 20, 2022

General Information:

2 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2202-1227

Pace Project No.: 30475205

Method: EPA 904.0

Description: 904.0 Radium 228

Client: HAWKMTN Labs. Inc.

Date: April 20, 2022

General Information:

2 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2202-1227
Pace Project No.: 30475205

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: HAWKMTN Labs. Inc.
Date: April 20, 2022

General Information:

2 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30475205

Sample: 2202-1227-13 **Lab ID: 30475205001** Collected: 03/22/22 09:52 Received: 03/23/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.198 ± 0.343 (0.612) C:NA T:85%	pCi/L	04/19/22 13:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.256 ± 0.287 (0.598) C:77% T:85%	pCi/L	04/14/22 13:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.454 ± 0.630 (1.21)	pCi/L	04/20/22 12:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30475205

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2202-1227-14 Lab ID: 30475205002 Collected: 03/22/22 09:52 Received: 03/23/22 22:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.269 ± 0.381 (0.646) C:NA T:92%	pCi/L	04/19/22 13:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.277 ± 0.309 (0.648) C:77% T:92%	pCi/L	04/14/22 13:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.546 ± 0.690 (1.29)	pCi/L	04/20/22 12:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30475205

QC Batch: 494872

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: 30475205001, 30475205002

METHOD BLANK: 2394033

Matrix: Water

Associated Lab Samples: 30475205001, 30475205002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.262 (0.588) C:NA T:90%	pCi/L	04/19/22 13:24	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30475205

QC Batch: 494874

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: 30475205001, 30475205002

METHOD BLANK: 2394040

Matrix: Water

Associated Lab Samples: 30475205001, 30475205002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.172 ± 0.231 (0.491) C:84% T:90%	pCi/L	04/14/22 14:30	

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: 2202-1227
Pace Project No.: 30475205

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

REPORT OF LABORATORY ANALYSIS

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HAWKMTN LABS INC
 201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkmtnlabs.com

**CHAIN OF CUSTODY
 SAMPLE SUBMISSION RECORD**

DIRECTIONS: Ink only; Complete legibly; Gray areas are for lab use only; Incomplete, damaged, or illegible COC will delay your sample(s)

Customer: **HAWK MTN LABS**
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____
 Email: _____ Fax: _____

Project: **TO: PRE-PA**
 Report To: _____
 Invoice To: _____
 PO# _____

CLIENT ID: _____
 THERMOMETER ID: _____
 COMPLETED BY: _____

Container Size: 40 mL 500 mL
 100 mL 1 Liter
 250 mL 1/2 gal
Container Type: AG = Amber Glass
 CG = Clear Glass
 PL = Plastic

Matrix: SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SCM = Solid/Chemical Waste
 OT = Other

Comments:
SAMPLES FROM PA

Bacterial Sample Accepted: Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED	TEMPERATURE (°C)
PI	→			
IL	→			
HNO3	→			
RADIUM				
RADIUM				
TOTAL RADIUM				
GRAVIMETRY				

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	G-COMPOSITE	DATE	TIME	SAMPLED	DATE	TIME	SAMPLED	MATRIX
	2202-1227-13	G	3/23/22	10:00	npw	3/23/22	10:00		
	2202-1227-14	G	3/23/22	10:00	npw	3/23/22	10:00		

Enter Number of Containers Per Analysis

1	1	→	cd	
1	1	→	ca	

WO#: 30475205



SAMPLED BY (PRINT): **NICK LYNN - HML**
 RECEIVED BY: **[Signature]**
 RECEIVED AT LAB: **[Signature]**
 COC REVIEWED: _____

Receipt Info:
 Received on ice? Y/N
 Samples intact? Y/N
 COC intact and complete? Y/N
 Correct Containers? Y/N
 Adequate Samples? Y/N
 Violations: Headspace Present? Y/N
 Correct Preserve Y/N

DEP Drinking Water ONLY
 PW/SID#: _____ Distribution Point: _____
 Entry Point: _____ Location: _____
 Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Special
 Raw Plant Initial Follow-Up

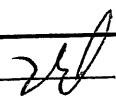
Are these samples for permit reporting purposes? Yes No
 If Yes, which agency?
 FHA NPDES PWS #
 Landfill, Water
 Landfill, Solid Waste
 Department of Health
 Underground Storage Tank
 Oil and Gas
 Bureau of Mining
 Other

3-23-22 1220 [Signature] 3-23-22 1375 [Signature] TMC 1530

Face Analytical

Client Name: Hawk MTR

Project #

Label  LIMS Login

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no

Thermometer Used: 14 Type of Ice: Met Blue None

Cooler Temperature Observed Temp 3.8 °C Correction Factor: 0.5 °C Final Temp: 3.3 °C

Temp should be above freezing to 6°C

Comments: pH paper Lot# 1002411 Date and Initials of person examining 14-3-24-22

Chain of Custody Present:	Chain of Custody Filled Out:	Chain of Custody Relinquished:	Sampler Name & Signature on COC:	Sample Labels match COC:	-Includes date/time/ID Matrix:	Samples Arrived within Hold Time:	Short Hold Time Analysis (<72hr remaining):	Rush Turn Around Time Requested:	Sufficient Volume:	Correct Containers Used:	-Pace Containers Used:	Containers Intact:	Orthophosphate field filtered	Hex Cr Aqueous sample field filtered	Organic Samples checked for dechlorination:	Filtered volume received for Dissolved tests	All containers have been checked for preservation.	exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	All containers meet method preservation requirements.	Headspace in VOA Vials (>6mm):	Trip Blank Present:	Trip Blank Custody Seals Present	Rad Samples Screened < 0.5 mrem/hr
1. <input type="checkbox"/>	2. <input type="checkbox"/>	3. <input type="checkbox"/>	4. <input type="checkbox"/>	5. <input type="checkbox"/>	6. <input type="checkbox"/>	7. <input type="checkbox"/>	8. <input type="checkbox"/>	9. <input type="checkbox"/>	10. <input type="checkbox"/>	11. <input type="checkbox"/>	12. <input type="checkbox"/>	13. <input type="checkbox"/>	14. <input type="checkbox"/>	15. <input type="checkbox"/>	16. <input type="checkbox"/>	17. <input type="checkbox"/>	18. <input type="checkbox"/>	19. <input type="checkbox"/>	20. <input type="checkbox"/>	21. <input type="checkbox"/>	22. <input type="checkbox"/>	23. <input type="checkbox"/>	24. <input type="checkbox"/>

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/Resolution: _____

A check in this box indicates that additional information has been stored in reports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers) *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

MO#: 30475205

PM: SLS

Due Date: 04/14/22

CLIENT: HAWK

April 19, 2022

Ms. Amanda Paranac
HAWKMTN LABS INC
201 West Clay Avenue
Hazle Twp, PA 18202

RE: Project: 2202-1227
Pace Project No.: 30472662

Dear Ms. Paranac:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2022. 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 - Greensburg

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

Sincerely,



Steven L. Smith
steve.l.smith@pacelabs.com
(724)850-5600
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2202-1227

Pace Project No.: 30472662

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 #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2202-1227

Pace Project No.: 30472662

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30472662001	2202-1227-1	Water	03/10/22 09:20	03/14/22 22:00
30472662002	2202-1227-2	Water	03/10/22 09:20	03/14/22 22:00
30472662003	2202-1227-3	Water	03/10/22 10:12	03/14/22 22:00
30472662004	2202-1227-4	Water	03/10/22 10:39	03/14/22 22:00
30472662005	2202-1227-5	Water	03/10/22 11:20	03/14/22 22:00
30472662006	2202-1227-6	Water	03/10/22 12:02	03/14/22 22:00
30472662007	2202-1227-7	Water	03/10/22 12:38	03/14/22 22:00
30472662008	2202-1227-8	Water	03/10/22 09:43	03/14/22 22:00
30472662009	2202-1227-9	Water	03/10/22 14:49	03/14/22 22:00
30472662010	2202-1227-10	Water	03/10/22 14:19	03/14/22 22:00
30472662011	2202-1227-11	Water	03/10/22 13:56	03/14/22 22:00
30472662012	2202-1227-12	Water	03/10/22 13:27	03/14/22 22:00
30472662013	2202-1227-15	Water	03/10/22 15:05	03/14/22 22:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2202-1227
Pace Project No.: 30472662

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30472662001	2202-1227-1	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662002	2202-1227-2	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662003	2202-1227-3	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662004	2202-1227-4	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662005	2202-1227-5	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662006	2202-1227-6	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662007	2202-1227-7	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662008	2202-1227-8	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662009	2202-1227-9	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662010	2202-1227-10	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662011	2202-1227-11	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662012	2202-1227-12	EPA 903.1	RPS	1	PASI-PA
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30472662013	2202-1227-15	EPA 903.1	RPS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2202-1227

Pace Project No.: 30472662

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2202-1227

Pace Project No.: 30472662

Method: EPA 903.1

Description: 903.1 Radium 226

Client: HAWKMTN Labs. Inc.

Date: April 19, 2022

General Information:

13 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2202-1227

Pace Project No.: 30472662

Method: EPA 904.0

Description: 904.0 Radium 228

Client: HAWKMTN Labs. Inc.

Date: April 19, 2022

General Information:

13 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2202-1227

Pace Project No.: 30472662

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: HAWKMTN Labs. Inc.

Date: April 19, 2022

General Information:

13 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-1 **Lab ID: 30472662001** Collected: 03/10/22 09:20 Received: 03/14/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.212 (0.341) C:NA T:92%	pCi/L	04/12/22 13:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.275 ± 0.356 (0.757) C:67% T:92%	pCi/L	04/06/22 14:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.275 ± 0.568 (1.10)	pCi/L	04/14/22 06:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2202-1227-2 Lab ID: 30472662002 Collected: 03/10/22 09:20 Received: 03/14/22 22:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0980 ± 0.359 (0.691) C:NA T:93%	pCi/L	04/12/22 13:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.619 ± 0.401 (0.758) C:69% T:93%	pCi/L	04/06/22 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.717 ± 0.760 (1.45)	pCi/L	04/14/22 06:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-3 **Lab ID: 30472662003** Collected: 03/10/22 10:12 Received: 03/14/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.30 ± 1.57 (0.883) C:NA T:85%	pCi/L	04/12/22 13:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.117 ± 4.04 (9.29) C:63% T:85%	pCi/L	04/06/22 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.30 ± 5.61 (10.2)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-4 **Lab ID: 30472662004** Collected: 03/10/22 10:39 Received: 03/14/22 22:00 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	2.71 ± 1.80 (0.817) C:NA T:90%	pCi/L	04/12/22 13:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	3.37 ± 3.92 (8.30) C:68% T:92%	pCi/L	04/06/22 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	6.08 ± 5.72 (9.12)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2202-1227-5 Lab ID: 30472662005 Collected: 03/10/22 11:20 Received: 03/14/22 22:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.858 ± 1.37 (0.775) C:NA T:92%	pCi/L	04/12/22 13:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	11.8 ± 5.49 (9.40) C:64% T:92%	pCi/L	04/06/22 14:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	12.7 ± 6.86 (10.2)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-6 **Lab ID: 30472662006** Collected: 03/10/22 12:02 Received: 03/14/22 22:00 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	2.43 ± 1.61 (0.731) C:NA T:63%	pCi/L	04/12/22 13:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.11 ± 6.55 (14.7) C:62% T:63%	pCi/L	04/06/22 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.54 ± 8.16 (15.4)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-7 **Lab ID: 30472662007** Collected: 03/10/22 12:38 Received: 03/14/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0684 ± 0.211 (0.493) C:NA T:88%	pCi/L	04/12/22 14:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.348 ± 0.619 (1.35) C:61% T:88%	pCi/L	04/06/22 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.348 ± 0.830 (1.84)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-8 **Lab ID: 30472662008** Collected: 03/10/22 09:43 Received: 03/14/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.639 ± 1.53 (0.865) C:NA T:89%	pCi/L	04/12/22 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.977 ± 4.19 (9.47) C:65% T:91%	pCi/L	04/06/22 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.62 ± 5.72 (10.3)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2202-1227-9 Lab ID: 30472662009 Collected: 03/10/22 14:49 Received: 03/14/22 22:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.331 ± 1.58 (0.896) C:NA T:91%	pCi/L	04/12/22 14:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	4.32 ± 4.70 (9.83) C:63% T:91%	pCi/L	04/06/22 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	4.65 ± 6.28 (10.7)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-10 **Lab ID: 30472662010** Collected: 03/10/22 14:19 Received: 03/14/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 1.09 (1.81) C:NA T:87%	pCi/L	04/12/22 14:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	-0.139 ± 2.61 (6.13) C:65% T:87%	pCi/L	04/06/22 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.000 ± 3.70 (7.94)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-11 **Lab ID: 30472662011** Collected: 03/10/22 13:56 Received: 03/14/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.954 ± 1.24 (1.77) C:NA T:81%	pCi/L	04/12/22 14:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.03 ± 3.48 (7.84) C:66% T:81%	pCi/L	04/06/22 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.98 ± 4.72 (9.61)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2202-1227-12 Lab ID: 30472662012 Collected: 03/10/22 13:27 Received: 03/14/22 22:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.409 (0.764) C:NA T:86%	pCi/L	04/12/22 14:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.340 ± 0.468 (1.00) C:65% T:88%	pCi/L	04/06/22 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.340 ± 0.877 (1.76)	pCi/L	04/19/22 12:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

Sample: 2202-1227-15 **Lab ID: 30472662013** Collected: 03/10/22 15:05 Received: 03/14/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0673 ± 0.364 (0.720) C:NA T:87%	pCi/L	04/12/22 14:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.326 ± 0.409 (0.868) C:66% T:87%	pCi/L	04/06/22 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.326 ± 0.773 (1.59)	pCi/L	04/19/22 12:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

QC Batch: 493791

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: 30472662001, 30472662002

METHOD BLANK: 2389258

Matrix: Water

Associated Lab Samples: 30472662001, 30472662002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.529 ± 0.335 (0.623) C:69% T:99%	pCi/L	04/06/22 11:16	

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: 2202-1227
Pace Project No.: 30472662

QC Batch: 493790	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: 30472662001, 30472662002

METHOD BLANK: 2389256 Matrix: Water

Associated Lab Samples: 30472662001, 30472662002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0400 ± 0.183 (0.295) C:NA T:99%	pCi/L	04/12/22 12:10	

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: 2202-1227

Pace Project No.: 30472662

QC Batch: 493804

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: 30472662003, 30472662004, 30472662005, 30472662006, 30472662007, 30472662008, 30472662009, 30472662010, 30472662011, 30472662012, 30472662013

METHOD BLANK: 2389266

Matrix: Water

Associated Lab Samples: 30472662003, 30472662004, 30472662005, 30472662006, 30472662007, 30472662008, 30472662009, 30472662010, 30472662011, 30472662012, 30472662013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.133 ± 0.348 (0.843) C:67% T:79%	pCi/L	04/06/22 11:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2202-1227

Pace Project No.: 30472662

QC Batch: 493803

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: 30472662003, 30472662004, 30472662005, 30472662006, 30472662007, 30472662008, 30472662009, 30472662010, 30472662011, 30472662012, 30472662013

METHOD BLANK: 2389265

Matrix: Water

Associated Lab Samples: 30472662003, 30472662004, 30472662005, 30472662006, 30472662007, 30472662008, 30472662009, 30472662010, 30472662011, 30472662012, 30472662013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.138 ± 0.315 (0.558) C:NA T:79%	pCi/L	04/12/22 13:26	

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: 2202-1227
Pace Project No.: 30472662

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

REPORT OF LABORATORY ANALYSIS

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WO#: 30472662

HAWK MTN LABS INC
201 West Clay Avenue / Hazle Township, PA 18202
Phone: (570) 455-6011 Fax: (570) 455-6321
www.hawkmtnlabs.com

DIRECT only: 1

CLIENT ID: _____
THERMOMETER ID: _____
COMPLETED BY: _____

RD
or lab use
sample(s)

Customer: **HAWK MTN LABS**

Subject: **TO: PACE PA**

Address: _____

Report To: _____

City: _____ State: _____ Zip Code: _____

Invoice To: _____

Email: _____

PO# _____

Data Delivery:
 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 Other:
*surcharge applies

Container Size: 40 mL 500 mL
100 mL 1 Liter
250 mL 1/2 gal

Matrix: SO = Soil
DW = Drinking Water
NPW = Non Potable Water
SCM = Solid/Chemical Waste
OT = Other

Container Type: AG = Amber Glass
CG = Clear Glass
PL = Plastic

Comments: SAMPLES FROM PA

Container: PL →
IL →
HAND3 →

Container Type: PL →
IL →
HAND3 →

Container Size: PL →
IL →
HAND3 →

Preservative: HAND3 →

Bacterial Samples Accepted: Monday - Thursday 8 a.m. - 4 p.m.
Friday 8 a.m. - 12 p.m.

ANALYSES / METHOD REQUESTED

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	DATE SAMPLED	TIME SAMPLED	MATRIX	Enter Number of Containers Per Analysis	TEMPERATURE (°C)
	2202-1227-1	3/14/05	0945	NPW	1	001
	2202-1227-2	3/14/05	0945	NPW	1	002
	2202-1227-3	3/14/05	0945	NPW	1	003
	2202-1227-4	3/14/05	0945	NPW	1	004
	2202-1227-5	3/14/05	0945	NPW	1	005
	2202-1227-6	3/14/05	0945	NPW	1	006

SAMPLED BY (PRINT): HAWK MTN LABS
SAMPLED BY (SIGN): HML

REINQUISHED BY: _____
REINQUISHED BY: _____
LOGGED IN BY: _____

RECEIVED BY: _____
RECEIVED AT LAB: _____
COC REVIEWED: _____

DATE: 3-14-05
TIME: 0945

DATE: 3-14-05
TIME: 0945

DATE: 3-14-05
TIME: 0945

RECEIVED FROM: _____
AMOUNT: \$ _____

PAID BY: _____
Cash _____
Credit Card _____
Check _____

DEP Drinking Water ONLY
PWSID#: _____
Entry Point: _____
Period: Annual Semi-Annual Quarterly Monthly
Type: Check Distribution Start Up Special
Raw Plant Initial Follow Up

Are these samples for permit reporting purposes? Yes ___ No ___
If Yes, which agency?
FHA _____
NPDES _____
PWS # _____
Landfill, Water _____
Landfill, Solid Waste _____
Department of Health _____
Underground Storage Tank _____
Oil and Gas _____
Bureau of Mining _____
Other _____

Completed by: _____

HAWK MTN LABS INC
 201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkmtnlabs.com

**CHAIN OF CUSTODY
 SAMPLE SUBMISSION RECORD**

DIRECTIONS: Ink only; Complete legibly; Gray areas are for lab use only; Incomplete, damaged, or illegible COC will delay your sample(s)

CLIENT ID: _____
 THERMOMETER ID: _____
 COMPLETED BY: _____

Customer: **HAWK MTN LABS** TO: **PAPE PA**
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____
 Report To: _____
 Invoice To: _____
 PO# _____
 Turn Around Time:
 1 Day *
 3 Day *
 5 Day *
 Standard (30)
 Other: _____
 *surcharge applies

Container Size: 40 mL 500 mL
 100mL 1 Liter
 250mL 1/2 gal
 Container Type: AG = Amber Glass
 OG = Clear Glass
 PL = Plastic
 Matrix:
 SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SCM = Solid/Chemical Waste
 OT = Other
 Container Type: **PL**
 Container Size: **1L**
 Preservative: **HNO3**

Comments: **SAMPLES FROM PA**

Bacterial Samples Accepted: Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	DATE	TIME	SAMPLER	MATRIX	ANALYSES / METHOD REQUESTED		TEMPERATURE (°C)
						CONTAINER TYPE	CONTAINER SIZE	
	2202-1207-7	3/14/12	1338	NPW	NPW	RADIUM	TOTAL RADIUM	007
	2202-1207-8	3/14/12	1339	NPW	NPW	RADIUM	TOTAL RADIUM	008
	2202-1207-9	3/14/12	1340	NPW	NPW	RADIUM	TOTAL RADIUM	009
	2202-1207-10	3/14/12	1341	NPW	NPW	RADIUM	TOTAL RADIUM	010
	2202-1207-11	3/14/12	1342	NPW	NPW	RADIUM	TOTAL RADIUM	011
	2202-1207-12	3/14/12	1343	NPW	NPW	RADIUM	TOTAL RADIUM	012

Enter Number of Containers Per Analysis

SAMPLED BY (SIGN): **HML**
 RECEIVED BY: _____
 RECEIVED AT LAB: _____
 COC REVIEWED: _____
 Date: 3-14-12 Time: 0545
 Date: 3/14/12 Time: 0545
 Date: 3/14/12 Time: 0545

Are these samples for permit reporting purposes? Yes No
 if Yes, which agency?
 FHA _____
 NPDES _____
 PWS # _____
 Landfill, Water _____
 Landfill, Solid Waste _____
 Department of Health _____
 Underground Storage Tank _____
 Oil and Gas _____
 Bureau of Mining _____
 Other _____

DEP Drinking Water ONLY
 PWSID#: _____
 Entry Point: _____ Location: _____
 Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Special Follow Up
 Raw Plant Initial
 Received From Amount: \$ _____
 HML _____
 Walk in _____
 Courier _____
 FED EX _____
 UPS _____
 USPS _____
 Paid by: Cash _____ Credit Card _____ Check _____
 Received on ice? Y/N _____
 Samples intact? Y/N _____
 COC intact and complete? Y/N _____
 Correct Containers? Y/N _____
 Adequate Samples? Y/N _____
 Violates: Headspace Present? Y/N _____
 Correct Preserve Y/N _____
 Completed by: _____

3/14/12 15 30 RDS PAE 3-14-12 2:00
 3/14/12 15 30 RDS PAE 3-14-12 2:00
 3/14/12 15 30 RDS PAE 3-14-12 2:00

HAWK MOUNTAIN LABS INC
CHAIN OF CUSTODY
SAMPLE SUBMISSION RECORD

201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkmtlabs.com

CLIENT ID: _____
 THERMOMETER ID: _____
 COMPLETED BY: _____

Customer: **HAWK MOUNTAIN LABS**
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Email: _____ Phone: () - () - ()
 Fax: () - () - ()

Project: **TO: PACE PA**
 Report To: _____
 Invoice To: _____
 PO# _____
 Turn Around Time:
 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 Other: _____
 *surcharge applies
 Data Delivery:
 Fax
 Email
 Web
 Mail

Container Size:
 40 mL 500 mL
 100 mL 1 Liter
 250 mL 1/2 gal

Container Type:
 AG = Amber Glass
 CG = Clear Glass
 PL = Plastic

Matrix:
 SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SOM = Solid/Chemical Waste
 OT = Other

Comments:
SAMPLES FROM PA

Bacterial Samples Accepted:
 Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED	TEMPERATURE (°C)
PL ->				
IL ->				
HANOB				
Enter Number of Containers Per Analysis				
				013

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	G - GRAB		G - COMPOSITE	
		DATE	TIME	DATE	TIME
	2000-12-27-15	3/11/22	12:05	3/11/22	6:55 PM

Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED	TEMPERATURE (°C)

SAMPLED BY (PRINT): **HAWK MOUNTAIN LABS**
 RECEIVED BY: _____
 RECEIVED AT LAB: _____
 COC REVIEWED: **RDS PACE**

Are these samples for permit reporting purposes? Yes No
 If Yes, which agency?
 FHA
 NPDES
 PWS #
 Landfill, Water
 Landfill, Solid Waste
 Department of Health
 Underground Storage Tank
 Oil and Gas
 Bureau of Mining
 Other _____

DEP Drinking Water ONLY
 PWSID #: _____
 Distribution Point: _____
 Location: _____
 Entry Point: _____
 Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Special
 Follow Up

Received From Amount: \$ _____
 HML Walk-In Courier
 Paid by: Cash Credit Card Check # _____
 Y/N
 Received on ice? Y/N
 Samples intact? Y/N
 COC intact and complete? Y/N
 Correct Containers? Y/N
 Adequate Samples? Y/N
 Volatiles: Headspace Present? Y/N
 Correct Preserve Y/N
 Completed by: _____
 Date: 3/11/22 15:30

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Hawk MTN

Project # 30472662

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label MJS
LIMS Login MJS

Tracking #: _____

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

Thermometer Used 14 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 2.4 °C Correction Factor: 10.0 °C Final Temp: 2.4 °C
Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:	
				<u>10D2811</u>	<u>MJS 3-15-22</u>	
Chain of Custody Present:	/					
Chain of Custody Filled Out:	/					
Chain of Custody Relinquished:	/					
Sampler Name & Signature on COC:	/					
Sample Labels match COC:	/					
-Includes date/time/ID Matrix: <u>WT</u>						
Samples Arrived within Hold Time:	/					
Short Hold Time Analysis (<72hr remaining):		/				
Rush Turn Around Time Requested:		/				
Sufficient Volume:	/					
Correct Containers Used:	/					
-Pace Containers Used:		/				
Containers Intact:	/					
Orthophosphate field filtered			/			
Hex Cr Aqueous sample field filtered			/			
Organic Samples checked for dechlorination:			/			
Filtered volume received for Dissolved tests			/			
All containers have been checked for preservation.	/					
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix						
All containers meet method preservation requirements.	/			Initial when completed <u>MJS</u>	Date/time of preservation	
				Lot # of added preservative		
Headspace in VOA Vials (>6mm):			/			
Trip Blank Present:			/			
Trip Blank Custody Seals Present			/			
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>MJS</u>	Date: <u>3-15-22</u>	Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** ECC-1
Sample 001: ECC-1

Matrix: Non Potable Water

Printed On: 2/25/2022
 Printed By: HP
 Approved By: SH

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	2.5	C	SH
Turbidity, Field	WA-FTURB	4.73	NTU	SH
ORP (ReDox)	WA-ORP	271.1	mv	SH
Dissolved oxygen	WA-DO	13.67	mg/L	SH
pH, Field	WA-FPH	6.93	su	SH
Specific Conductance, Field	WA-SPEC.-F	164.2	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.6	C	SH
pH meter ID	QC-PHMETER	752055772		SH

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** cms **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y / N	Date:	Time:
				3-10-22
			-	-
			-	-
			-	-
			3-10-22	16:15
			3/10/22	16:00

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> / N
Transported on ice?	<input checked="" type="checkbox"/> / N
COC intact and complete?	<input checked="" type="checkbox"/> / N
Correct containers?	<input checked="" type="checkbox"/> / N
Adequate samples?	<input checked="" type="checkbox"/> / N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / N
Completed by:	SH
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> / N SH

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** ECC-1D
Sample 002: ECC-1D

Printed On: 2/25/2022
 Printed By: ALP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	2.5	C	SH
Turbidity, Field	WA-FTURB	4.73	NTU	SH
ORP (ReDox)	WA-ORP	271.1	mv	SH
Dissolved oxygen	WA-DO	13.67	mg/L	SH
pH, Field	WA-FPH	6.93	su	SH
Specific Conductance, Field	WA-SPEC.-F	164.2	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.8	C	SH
pH meter ID	QC-PHMETER	75E055772		SH

Sampling Comments: _____
Bottles Made By: me **Bottles Checked By:** cmg **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	3-10-22	9:20
	Relinquished By:	—	—	—
	Received By:	—	—	—
	Relinquished By:	—	—	—
	Received at Lab By:	<u>[Signature]</u>	3-10-22	16:15
	Logged in By:	<u>[Signature]</u>	3/10/22	16:00

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	/	N
Transported on ice?	/	N
COC intact and complete?	/	N
Correct containers?	/	N
Adequate samples?	/	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** MCC-1
Sample 003: MCC-1

Printed On: 2/25/2022
 Printed By: SH
 Approved By: lu

Matrix: Non Potable Water

Pick up date:

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	2.4	C	SH
Turbidity, Field	WA-FTURB	13.05	NTU	SH
ORP (ReDox)	WA-ORP	225.3	mv	SH
Dissolved oxygen	WA-DO	13.18	mg/L	SH
pH, Field	WA-FPH	6.63	su	SH
Specific Conductance, Field	WA-SPEC.-F	239.7	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.3	C	SH
pH meter ID	QC-PHMETER	Y51055772		SH

Sampling Comments: _____
Bottles Made By: lu **Bottles Checked By:** cmg **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
				3-10-22
			-	-
			-	-
			-	-
			3-10-22	16:15
			3/10/22	16:00

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	<u>SH</u> / N
Transported on ice?	<u>SH</u> / N
COC intact and complete?	<u>SH</u> / N
Correct containers?	<u>SH</u> / N
Adequate samples?	<u>SH</u> / N
Volatiles: headspace present?	<u>SH</u> / <u>Y</u>
Completed by:	<u>SH</u>
Samples/COC/Analysis agree?	<u>SH</u> / N <u>SH</u>

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** CC-1
Sample 004: CC-1

Printed On: 2/25/2022
 Printed By: SH
 Approved By: mi

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank HGI~~ SH 3-10-22
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>2.9</u>	C	<u>SH</u>
Turbidity, Field	WA-FTURB	<u>12.06</u>	NTU	<u>SH</u>
ORP (ReDox)	WA-ORP	<u>165.5</u>	mv	<u>SH</u>
Dissolved oxygen	WA-DO	<u>13.31</u>	mg/L	<u>SH</u>
pH, Field	WA-FPH	<u>6.66</u>	su	<u>SH</u>
Specific Conductance, Field	WA-SPEC.-F	<u>186.7</u>	uS/cm	<u>SH</u>
Temp Upon Receipt	QC-TEMPREC	<u>7.1</u>	C	<u>SH</u>
pH meter ID	QC-PHMETER	<u>751055772</u>		<u>SH</u>

Sampling Comments: _____
Bottles Made By: mi **Bottles Checked By:** CMG **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y <u>(N)</u>	SWL Required - Y <u>(N)</u>	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>3-10-22</u>	<u>10:39</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received By:	<u>-</u>	<u>-</u>	<u>-</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received at Lab By:	<u>[Signature]</u>	<u>3-10-22</u>	<u>16:15</u>
	Logged in By:	<u>[Signature]</u>	<u>3/10/22</u>	<u>16:00</u>

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951

Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.

201 W. Clay Ave., Hazle Township, PA 18202

Phone (570) 455-6011 Fax (570) 455-6321

Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** CC-2
Sample 005: CC-2

Printed On: 2/25/2022
 Printed By: ALP
 Approved By: su

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	3.5	C	SH
Turbidity, Field	WA-FTURB	12.98	NTU	SH
ORP (ReDox)	WA-ORP	215.0	mv	SH
Dissolved oxygen	WA-DO	13.29	mg/L	SH
pH, Field	WA-FPH	6.76	su	SH
Specific Conductance, Field	WA-SPEC.-F	190.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	31	C	SH
pH meter ID	QC-PHMETER	751055772		SH

Sampling Comments: _____
Bottles Made By: mi **Bottles Checked By:** oms **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / (N)	SWL Required - Y / (N)	Date:	Time:
	Sampled By:	<u>[Signature]</u>	3-10-22	11:20
	Relinquished By:	<u>—</u>	—	—
	Received By:	<u>—</u>	—	—
	Relinquished By:	<u>—</u>	—	—
	Received at Lab By:	<u>[Signature]</u>	3-10-22	16:15
Logged in By:	<u>[Signature]</u>	3/10/22	16:00	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Transported on ice?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
COC intact and complete?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Correct containers?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Adequate samples?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Completed by:	SH
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** CC-3
Sample 006: CC-3

Printed On: 2/25/2022
 Printed By: AP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>6.9</u>	C	SH
Turbidity, Field	WA-FTURB	<u>10.77</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>220.8</u>	mv	SH
Dissolved oxygen	WA-DO	<u>12.80</u>	mg/L	SH
pH, Field	WA-FPH	<u>6.98</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>209.0</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>3.4</u>	C	SH
pH meter ID	QC-PHMETER	<u>751055772</u>		SH

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** CMG **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / <input checked="" type="checkbox"/> N	SWL Required - Y / <input checked="" type="checkbox"/> N	Date:	Time:
	Sampled By: <u>SH</u>	<u>SH</u>	<u>3-10-22</u>	<u>12:02</u>
	Relinquished By: _____	_____	_____	_____
	Received By: _____	_____	_____	_____
	Relinquished By: _____	_____	_____	_____
	Received at Lab By: <u>SH</u>	<u>SH</u>	<u>3-10-22</u>	<u>16:15</u>
	Logged in By: <u>Quinn</u>	<u>Quinn</u>	<u>3/10/22</u>	<u>16:00</u>

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** CC-4
Sample 007: CC-4

Printed On: 2/25/2022
 Printed By: ALP
 Approved By: me

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>4.9</u>	C	SH
Turbidity, Field	WA-FTURB	<u>10.69</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>223.2</u>	mv	SH
Dissolved oxygen	WA-DO	<u>12.81</u>	mg/L	SH
pH, Field	WA-FPH	<u>7.05</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>206.3</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>5.1</u>	C	SH
pH meter ID	QC-PHMETER	<u>75E055772</u>		SH

Sampling Comments: _____
 Bottles Made By: me Bottles Checked By: cmg Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / (N)	SWL Required - Y / (N)	Date:	Time:
			<u>3-10-22</u>	<u>12:38</u>
			<u>-</u>	<u>-</u>
			<u>-</u>	<u>-</u>
			<u>-</u>	<u>-</u>
			<u>3-10-22</u>	<u>16:15</u>
			<u>3/10/22</u>	<u>16:00</u>

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** Trib 18790
Sample 008: Trib 18790

Matrix: Non Potable Water

Printed On: 2/25/2022
Printed By: HP
Approved By: SH

Pick up date:

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>2.7</u>	C	SH
Turbidity, Field	WA-FTURB	<u>15.19</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>235.9</u>	mv	SH
Dissolved oxygen	WA-DO	<u>14.70</u>	mg/L	SH
pH, Field	WA-FPH	<u>6.73</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>470.7</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>0.3</u>	C	SH
pH meter ID	QC-PHMETER	<u>75E055772</u>		SH

Sampling Comments: _____
Bottles Made By: me **Bottles Checked By:** AMS **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y / N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>3-10-22</u>	<u>9:43</u>
	Relinquished By:	_____	_____	_____
	Received By:	_____	_____	_____
	Relinquished By:	_____	_____	_____
	Received at Lab By:	<u>[Signature]</u>	<u>3-10-22</u>	<u>16:15</u>
Logged in By:	<u>[Signature]</u>	<u>3/10/22</u>	<u>16:00</u>	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** Trib 18787 (1)
Sample 009: Trib 18787 (1)

Printed On: 2/25/2022
 Printed By: ALP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	8.7	C	SH
Turbidity, Field	WA-FTURB	24.10	NTU	SH
ORP (ReDox)	WA-ORP	210.4	mv	SH
Dissolved oxygen	WA-DO	15.03	mg/L	SH
pH, Field	WA-FPH	7.54	su	SH
Specific Conductance, Field	WA-SPEC.-F	260.9	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	4.3	C	SH
pH meter ID	QC-PHMETER	YS2085772		SH

Sampling Comments: _____
Bottles Made By: mi **Bottles Checked By:** cmg **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / (N)	SWL Required (Y/N)	Date:	Time:
	Sampled By:	<u>SH</u>	3-10-22	14:49
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>SH</u>	3-10-22	16:15
Logged in By:	<u>Quinn</u>	3/10/22	16:00	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** Trib 18787 (2)
Sample 010: Trib 18787 (2)

Matrix: Non Potable Water

Printed On: 2/25/2022
 Printed By: ALP
 Approved By: ML

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	8.2	C	SH
Turbidity, Field	WA-FTURB	21.20	NTU	SH
ORP (ReDox)	WA-ORP	189.4	mv	SH
Dissolved oxygen	WA-DO	14.55	mg/L	SH
pH, Field	WA-FPH	7.62	su	SH
Specific Conductance, Field	WA-SPEC.-F	288.7	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	3.8	C	SH
pH meter ID	QC-PHMETER	481055772		SH

Sampling Comments: _____
Bottles Made By: ML **Bottles Checked By:** AMS **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y (N)	SWL Required - Y (N)	Date:	Time:
	Sampled By:	<u>[Signature]</u>	3-10-22	14:19
	Relinquished By:	_____	_____	_____
	Received By:	_____	_____	_____
	Relinquished By:	_____	_____	_____
	Received at Lab By:	<u>[Signature]</u>	3-10-22	16:15
Logged in By:	<u>[Signature]</u>	3/10/22	16:00	

Customer: Montour, LLC
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PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** Trib 18787 (3)
Sample 011: Trib 18787 (3)

Printed On: 2/25/2022
 Printed By: ALP
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	7.6	C	SH
Turbidity, Field	WA-FTURB	18.75	NTU	SH
ORP (ReDox)	WA-ORP	206.4	mv	SH
Dissolved oxygen	WA-DO	13.41	mg/L	SH
pH, Field	WA-FPH	7.53	su	SH
Specific Conductance, Field	WA-SPEC.-F	631.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	4.3	C	SH
pH meter ID	QC-PHMETER	YS-08772		SH

Sampling Comments: _____
Bottles Made By: [Signature] **Bottles Checked By:** CMF **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
			3-10-22	13:56
			-	-
			-	-
			-	-
			3-10-22	16:15
			3/10/22	16:00

Customer: Montour, LLC
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 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/>	/	N
Transported on ice?	<input checked="" type="checkbox"/>	/	N
COC intact and complete?	<input checked="" type="checkbox"/>	/	N
Correct containers?	<input checked="" type="checkbox"/>	/	N
Adequate samples?	<input checked="" type="checkbox"/>	/	N
Volatiles: headspace present?	<input checked="" type="checkbox"/>	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/>	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** Trib 18788
Sample 012: Trib 18788

Printed On: 2/25/2022
 Printed By: AP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	8.6	C	SH
Turbidity, Field	WA-FTURB	4.03	NTU	SH
ORP (ReDox)	WA-ORP	226.4	mv	SH
Dissolved oxygen	WA-DO	12.61	mg/L	SH
pH, Field	WA-FPH	7.07	su	SH
Specific Conductance, Field	WA-SPEC.-F	951.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	4.7	C	SH
pH meter ID	QC-PHMETER	751055772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** CMG **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / <input checked="" type="checkbox"/> N	SWL Required - Y / <input checked="" type="checkbox"/> N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	3-10-22	13:27
	Relinquished By:	—	—	—
	Received By:	—	—	—
	Relinquished By:	—	—	—
	Received at Lab By:	<u>[Signature]</u>	3-10-22	16:15
Logged in By:	<u>[Signature]</u>	3/10/22	16:00	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	<u>Y</u> / N
Transported on ice?	<u>Y</u> / N
COC intact and complete?	<u>Y</u> / N
Correct containers?	<u>Y</u> / N
Adequate samples?	<u>Y</u> / N
Volatiles: headspace present?	<u>Y</u> / N
Completed by:	<u>[Signature]</u>
Samples/COC/Analysis agree?	<u>Y</u> / N <u>80</u>

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** MO 3-5
Sample 013: MO 3-5

Printed On: 2/25/2022
 Printed By: [Signature]
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>9.6</u>	C	<u>[Signature]</u>
Turbidity, Field	WA-FTURB	<u>17.8</u>	NTU	<u>[Signature]</u>
ORP (ReDox)	WA-ORP	<u>306</u>	mv	<u>[Signature]</u>
Dissolved oxygen	WA-DO	<u>9.67</u>	mg/L	<u>[Signature]</u>
pH, Field	WA-FPH	<u>6.99</u>	su	<u>[Signature]</u>
Specific Conductance, Field	WA-SPEC.-F	<u>1596</u>	uS/cm	<u>[Signature]</u>
Temp Upon Receipt	QC-TEMPREC	<u>6.4</u>	C	<u>[Signature]</u>
pH meter ID	QC-PHMETER	<u>YSI771</u>		<u>[Signature]</u>

Sampling Comments: _____
Bottles Made By: [Signature] **Bottles Checked By:** [Signature] **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / <u>N</u>	SWL Required - Y / <u>N</u>	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>3/22/22</u>	<u>0952</u>
	Relinquished By:	_____	_____	_____
	Received By:	_____	_____	_____
	Relinquished By:	_____	_____	_____
	Received at Lab By:	<u>[Signature]</u>	<u>3/22/22</u>	<u>1430</u>
	Logged in By:	<u>[Signature]</u>	<u>3/22/22</u>	<u>1530</u>

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.

201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples intact?	0	/	N
Transported on ice?	0	/	N
COC intact and complete?	0	/	N
Correct containers?	0	/	N
Adequate samples?	0	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	<i>[Signature]</i>		
Samples/COC/Analysis agree?	(Y)	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** MO 3-5D
Sample 014: MO 3-5D

Printed On: 2/25/2022
 Printed By: *[Signature]*
 Approved By: *[Signature]*

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>9.6</u>	C	<i>[Signature]</i>
Turbidity, Field	WA-FTURB	<u>17.8</u>	NTU	<i>[Signature]</i>
ORP (ReDox)	WA-ORP	<u>106</u>	mv	<i>[Signature]</i>
Dissolved oxygen	WA-DO	<u>9.67</u>	mg/L	<i>[Signature]</i>
pH, Field	WA-FPH	<u>6.99</u>	su	<i>[Signature]</i>
Specific Conductance, Field	WA-SPEC.-F	<u>1595</u>	uS/cm	<i>[Signature]</i>
Temp Upon Receipt	QC-TEMPREC	<u>3.8</u>	C	<i>[Signature]</i>
pH meter ID	QC-PHMETER	<u>YSI771</u>		<i>[Signature]</i>

Sampling Comments: _____
Bottles Made By: *[Signature]* **Bottles Checked By:** *[Signature]* **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:

Flow Required - Y / N
 SWL Required - Y / N
 Date: _____ Time: _____
 Sampled By: *[Signature]* 3/22/22 0952
 Relinquished By: _____
 Received By: _____
 Relinquished By: _____
 Received at Lab By: *[Signature]* 3/22/22 1439
 Logged in By: *[Signature]* 3/22/22 1530

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2202-01227 **Sample ID:** SW FB
Sample 015: SW FB

Printed On: 2/25/2022
 Printed By: AP
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	NA	C	SH
Turbidity, Field	WA-FTURB	NA	NTU	SH
ORP (ReDox)	WA-ORP	NA	mv	SH
Dissolved oxygen	WA-DO	NA	mg/L	SH
pH, Field	WA-FPH	NA	su	SH
Specific Conductance, Field	WA-SPEC.-F	NA	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	7.5	C	SH
pH meter ID	QC-PHMETER	NA		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: [Signature] **Bottles Checked By:** [Signature] **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:

Flow Required - Y / N	SWL Required - Y / N	Date:	Time:
		3-10-22	15:05
Sampled By:	[Signature]		
Relinquished By:			
Received By:			
Relinquished By:			
Received at Lab By:	[Signature]	3-10-22	16:15
Logged in By:	[Signature]	3/10/22	16:00



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

Page 1 of 31

Report Narrative

HawkMtn WO #: 2206-01038
Subject Line: Montour 2022 Surface Water Project

Lab pH hold time is immediate (defined as 15 minutes from sampling time).

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on "a dry weight" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc. and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependent on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.

PA DEP 40-417
EPA PA00169



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

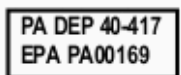
Report Date: 8/17/2022

Page 2 of 31

Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-001
Date Sampled: 06/14/2022 Time Sampled: 8:57 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: ECC-1
Client Sample ID: ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	16.05 NTU						SH	6/14/22	8:57
Specific Conductance, Field	182.5 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	8:57
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7	CCV2	NL	7/27/22	2:32
Calcium, Dissolved	19.3 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	17.8 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.0490 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.201 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.0760 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.0720 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	59.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0237 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0243 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-001
Date Sampled:	06/14/2022	Time Sampled:	8:57
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	ECC-1	Sample Point ID:	ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22 8:49	
Chloride	9.81 mg/L	0.0352	1	1.0	EPA 300.0	M1	NS	6/15/22 13:09	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/15/22 13:09	
Sulfate	15.8 mg/L	0.252	1	5.0	EPA 300.0		NS	6/15/22 13:09	
Radium 226	0.000 +/- 0.306 pCi/L		1		EPA 903.1		65-00282	7/22/22 12:46	0:00
Radium 228	0.664 +/- 0.475 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:46	0:00
Dissolved oxygen	8.19 mg/L				Field Meter	N	SH	6/14/22 8:57	
ORP (ReDox)	341.9 mv				Field Meter	N	SH	6/14/22 8:57	
Temp, Field	19.8 C				Field Meter		SH	6/14/22 8:57	
Turbidity	5.9 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:09	6/16/22 8:33
Alkalinity as CaCO3	47.8 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 11:01	
Total Dissolved Solids	107 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	5.6 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.15 su	1.68			SM 4500-H+B		SH	6/14/22 8:57	
pH, Lab	7.26 su	0.1	1		SM 4500-H+B	H1	JBB	7/1/22 15:56	7/1/22 15:59
Radium, Total	0.664 +/- 0.781 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

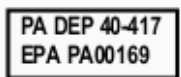
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-002
Date Sampled: 06/14/2022 Time Sampled: 10:48 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: MCC-1
Client Sample ID: MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	6.52 NTU						SH	6/14/22	10:48
Specific Conductance, Field	181.0 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	10:48
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	8/5/22	20:14
Calcium, Dissolved	20.2 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	18.9 mg/L	0.0384	1	0.500	EPA 200.7		NL	8/5/22	20:14
Iron, Dissolved	0.0480 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.362 mg/L	0.0122	1	0.020	EPA 200.7		NL	8/5/22	20:14
Strontium, Dissolved	0.0790 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	<0.0200 mg/L	0.00245	1	0.020	EPA 200.7		NL	8/5/22	20:14
Hardness, Total as CaCO3	65.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	8/5/22	20:14
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0208 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0229 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00263 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.00276 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-002
Date Sampled:	06/14/2022	Time Sampled:	10:48
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	MCC-1	Sample Point ID:	MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22 8:49	
Chloride	6.41 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/20/22 15:39	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 15:39	
Sulfate	20.5 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 15:39	
Radium 226	-0.0633+/-0.289 pCi/L		1		EPA 903.1		65-00282	7/22/22 12:46	0:00
Radium 228	0.425 +/- 0.475 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:46	0:00
Dissolved oxygen	7.98 mg/L				Field Meter	N	SH	6/14/22 10:48	
ORP (ReDox)	323.7 mv				Field Meter	N	SH	6/14/22 10:48	
Temp, Field	19.0 C				Field Meter		SH	6/14/22 10:48	
Turbidity	9.9 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:10	6/16/22 8:33
Alkalinity as CaCO3	48.4 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 11:10	
Total Dissolved Solids	114 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	7.0 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.21 su	1.68			SM 4500-H+B		SH	6/14/22 10:48	
pH, Lab	7.32 su	0.1	1		SM 4500-H+B	H1	JBB	7/11/22 16:06	7/11/22 16:36
Radium, Total	0.425 +/- 0.764 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

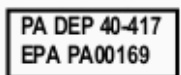
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-003
Date Sampled: 06/14/2022 Time Sampled: 10:48 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: MCC-1D
Client Sample ID: MCC-1D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	6.52 NTU						SH	6/14/22	10:48
Specific Conductance, Field	181.0 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	10:48
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7	CCV2	NL	7/27/22	2:32
Calcium, Dissolved	19.9 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	18.2 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.0500 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.310 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.0780 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.0770 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	62.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0211 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0224 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00262 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.00269 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.00167 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-003
Date Sampled:	06/14/2022	Time Sampled:	10:48
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	MCC-1D	Sample Point ID:	MCC-1D

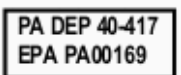
Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22 8:49	
Chloride	6.41 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/20/22 16:08	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 16:08	
Sulfate	20.5 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 16:08	
Radium 226	0.0731+/-0.334 pCi/L		1		EPA 903.1		65-00282	7/22/22 12:46	0:00
Radium 228	1.18 +/- 0.638 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:44	0:00
Dissolved oxygen	7.98 mg/L				Field Meter	N	SH	6/14/22 10:48	
ORP (ReDox)	323.7 mv				Field Meter	N	SH	6/14/22 10:48	
Temp, Field	19.0 C				Field Meter		SH	6/14/22 10:48	
Turbidity	8.1 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:10	6/16/22 8:33
Alkalinity as CaCO3	47.2 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 11:19	
Total Dissolved Solids	111 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	6.6 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.21 su	1.68			SM 4500-H+B		SH	6/14/22 10:48	
pH, Lab	7.39 su	0.1	1		SM 4500-H+B	H1	JBB	7/11/22 16:08	7/11/22 16:36
Radium, Total	1.25 +/- 0.972 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director





Customer: Montour, LLC
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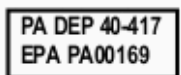
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-004
Date Sampled: 06/14/2022 Time Sampled: 11:45 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: CC-1
Client Sample ID: CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	16.33 NTU						SH	6/14/22	11:45
Specific Conductance, Field	192.2 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	11:45
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7	CCV2	NL	7/27/22	2:32
Calcium, Dissolved	20.7 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	18.3 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.0700 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.801 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.0800 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.0760 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	62.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0251 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0285 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00141 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.00141 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22	8:49





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-004
Date Sampled:	06/14/2022	Time Sampled:	11:45
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	CC-1	Sample Point ID:	CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	6/17/22 8:49	
Chloride	9.14 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/20/22 16:36	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 16:36	
Sulfate	18.9 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 16:36	
Radium 226	-0.0609+/-0.278 pCi/L		1		EPA 903.1		65-00282	7/22/22 12:46	0:00
Radium 228	0.736 +/- 0.465 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	7.40 mg/L				Field Meter	N	SH	6/14/22 11:45	
ORP (ReDox)	308.1 mv				Field Meter	N	SH	6/14/22 11:45	
Temp, Field	20.0 C				Field Meter		SH	6/14/22 11:45	
Turbidity	9.8 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:11	6/16/22 8:33
Alkalinity as CaCO3	50.0 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 11:28	
Total Dissolved Solids	118 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	8.4 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.51 su	1.68			SM 4500-H+B		SH	6/14/22 11:45	
pH, Lab	7.20 su	0.1	1		SM 4500-H+B	H1	JBB	7/7/22 15:03	7/7/22 15:21
Radium, Total	0.736 +/- 0.743 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
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Washingtonville, PA 17884

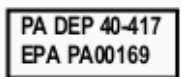
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-005
Date Sampled: 06/14/2022 Time Sampled: 12:16 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: CC-2
Client Sample ID: CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	11.14 NTU						SH	6/14/22	12:16
Specific Conductance, Field	187.1 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	12:16
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	20.6 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	19.2 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.0710 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.366 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.0770 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.0770 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	64.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0263 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0291 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00136 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.00139 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-005
Date Sampled:	06/14/2022	Time Sampled:	12:16
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	CC-2	Sample Point ID:	CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	9.25 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/20/22 18:15	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 18:15	
Sulfate	18.9 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 18:15	
Radium 226	0.223 +/- 0.269 pCi/L		1		EPA 903.1		65-00282	7/22/22 12:46	0:00
Radium 228	0.377 +/- 0.414 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	7.10 mg/L				Field Meter	N	SH	6/14/22 12:16	
ORP (ReDox)	316.4 mv				Field Meter	N	SH	6/14/22 12:16	
Temp, Field	20.0 C				Field Meter		SH	6/14/22 12:16	
Turbidity	9.8 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:11	6/16/22 8:33
Alkalinity as CaCO3	49.6 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 11:37	
Total Dissolved Solids	114 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	9.4 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.41 su	1.68			SM 4500-H+B		SH	6/14/22 12:16	
pH, Lab	7.27 su	0.1	1		SM 4500-H+B	H1	JBB	7/7/22 15:05	7/7/22 15:21
Radium, Total	0.600 +/- 0.683 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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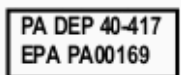
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-006
Date Sampled: 06/14/2022 Time Sampled: 13:03 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: CC-3
Client Sample ID: CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	11.81 NTU						SH	6/14/22	13:03
Specific Conductance, Field	246.1 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	13:03
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7	CCV2	NL	7/27/22	2:32
Calcium, Dissolved	31.9 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	29.6 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.0620 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.600 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.120 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.121 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	96.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0277 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0296 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00434 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.00435 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.00146 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-006
Date Sampled:	06/14/2022	Time Sampled:	13:03
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	CC-3	Sample Point ID:	CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	10.2 mg/L	0.0352	5	1.0	EPA 300.0		NS	6/20/22 18:57	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 18:43	
Sulfate	46.9 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 18:43	
Radium 226	-0.132+/-0.318 pCi/L		1		EPA 903.1		65-00282	7/22/22 12:46	0:00
Radium 228	0.939 +/- 0.526 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	7.57 mg/L				Field Meter	N	SH	6/14/22 13:03	
ORP (ReDox)	321.2 mv				Field Meter	N	SH	6/14/22 13:03	
Temp, Field	21.9 C				Field Meter		SH	6/14/22 13:03	
Turbidity	24 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:15	6/16/22 8:33
Alkalinity as CaCO3	59.2 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 11:46	
Total Dissolved Solids	166 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	11.3 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.44 su	1.68			SM 4500-H+B		SH	6/14/22 13:03	
pH, Lab	7.32 su	0.1	1		SM 4500-H+B	H1	JBB	6/23/22 15:58	6/23/22 16:12
Radium, Total	0.939 +/- 0.844 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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Customer: Montour, LLC
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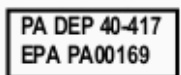
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-007
Date Sampled: 06/14/2022 Time Sampled: 14:00 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: CC-4
Client Sample ID: CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	6.89 NTU						SH	6/14/22	14:00
Specific Conductance, Field	254.5 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	14:00
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	29.8 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	27.0 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.0750 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.322 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.113 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.111 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	88.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0261 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0272 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00378 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.00360 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.00154 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-007
Date Sampled:	06/14/2022	Time Sampled:	14:00
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	CC-4	Sample Point ID:	CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	9.92 mg/L	0.0352	5	1.0	EPA 300.0		NS	6/20/22 23:25	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 20:07	
Sulfate	43.3 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 20:07	
Radium 226	0.122 +/- 0.293 pCi/L		1		EPA 903.1		65-00282	7/22/22 12:46	0:00
Radium 228	-0.276+/-0.366 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	7.82 mg/L				Field Meter	N	SH	6/14/22 14:00	
ORP (ReDox)	319.2 mv				Field Meter	N	SH	6/14/22 14:00	
Temp, Field	22.6 C				Field Meter		SH	6/14/22 14:00	
Turbidity	6.6 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:26	6/16/22 8:33
Alkalinity as CaCO3	57.2 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 11:55	
Total Dissolved Solids	155 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	5.1 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.53 su	1.68			SM 4500-H+B		SH	6/14/22 14:00	
pH, Lab	7.36 su	0.1	1		SM 4500-H+B	H1	JBB	6/23/22 16:00	6/23/22 16:12
Radium, Total	0.122 +/- 0.659 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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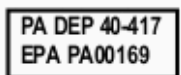
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-008
Date Sampled: 06/14/2022 Time Sampled: 9:46 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: Trib 18790
Client Sample ID: Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	42.03 NTU						SH	6/14/22	9:46
Specific Conductance, Field	746.0 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	9:46
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7	CCV2	NL	7/27/22	2:32
Calcium, Dissolved	96.4 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/6/22	22:54
Calcium, Total	33.2 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.142 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	3.73 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.203 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.210 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	236 mg/L	0.210	10	1.5	EPA 200.7, Calc		NL	7/28/22	20:07
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	0.0036 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	0.00483 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0451 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0660 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.005 mg/L	0.000190	5	0.001	EPA 200.8		KLM	7/8/22	21:53
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	0.00111 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00273 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	<0.005 mg/L	0.000789	5	0.001	EPA 200.8		KLM	7/8/22	21:53
Molybdenum, Dissolved	0.00223 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	0.00161 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
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Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-008
Date Sampled:	06/14/2022	Time Sampled:	9:46
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	Trib 18790	Sample Point ID:	Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	70.5 mg/L	0.0352	10	1.0	EPA 300.0		NS	6/20/22 19:25	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 19:11	
Sulfate	14.8 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 19:11	
Radium 226	-0.0656+/-0.299 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.543 +/- 0.448 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	2.88 mg/L				Field Meter	N	SH	6/14/22 9:46	
ORP (ReDox)	119.1 mv				Field Meter	N	SH	6/14/22 9:46	
Temp, Field	17.4 C				Field Meter		SH	6/14/22 9:46	
Turbidity	60 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:26	6/16/22 8:33
Alkalinity as CaCO3	259 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 12:05	
Total Dissolved Solids	396 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	66.7 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.02 su	1.68			SM 4500-H+B		SH	6/14/22 9:46	
pH, Lab	7.58 su	0.1	1		SM 4500-H+B	H1	JBB	6/23/22 16:02	6/23/22 16:12
Radium, Total	0.543 +/- 0.747 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

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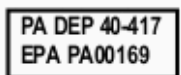
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-009
Date Sampled: 06/14/2022 Time Sampled: 16:48 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: Trib 18787 (1)
Client Sample ID: Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	25.30 NTU						SH	6/14/22	16:48
Specific Conductance, Field	397.4 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	16:48
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	45.6 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	41.3 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	0.727 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	2.46 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.144 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.143 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	140 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	0.00187 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	0.00169 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0445 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0522 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	0.00112 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00113 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.00277 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	0.00177 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
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Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-009
Date Sampled:	06/14/2022	Time Sampled:	16:48
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (1)	Sample Point ID:	Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	31.1 mg/L	0.0352	5	1.0	EPA 300.0		NS	6/20/22 19:53	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/20/22 19:39	
Sulfate	16.6 mg/L	0.252	1	5.0	EPA 300.0		NS	6/20/22 19:39	
Radium 226	0.0675+/-0.512 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.544 +/- 0.474 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	4.25 mg/L				Field Meter	N	SH	6/14/22 16:48	
ORP (ReDox)	320.1 mv				Field Meter	N	SH	6/14/22 16:48	
Temp, Field	23.1 C				Field Meter		SH	6/14/22 16:48	
Turbidity	8.1 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:27	6/16/22 8:33
Alkalinity as CaCO3	122 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 12:26	
Total Dissolved Solids	245 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.08 su	1.68			SM 4500-H+B		SH	6/14/22 16:48	
pH, Lab	7.31 su	0.1	1		SM 4500-H+B	H1	JBB	6/23/22 16:03	6/23/22 16:12
Radium, Total	0.612 +/- 0.986 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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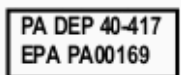
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-010
Date Sampled: 06/15/2022 Time Sampled: 13:34 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: Trib 18787 (2)
Client Sample ID: Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	4.92 NTU						SH	6/15/22	13:34
Specific Conductance, Field	524.0 uS/cm	5		5	EPA 120.1, FIELD		SH	6/15/22	13:34
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	74.5 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/6/22	22:54
Calcium, Total	70.9 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/28/22	20:07
Iron, Dissolved	0.138 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.437 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.229 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.230 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	219 mg/L	0.210	10	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	0.00129 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0395 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0441 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.00276 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.00232 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.00329 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	0.00287 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-010
Date Sampled:	06/15/2022	Time Sampled:	13:34
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (2)	Sample Point ID:	Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	20.7 mg/L	0.0352	5	1.0	EPA 300.0		NS	6/21/22 21:16	
Fluoride	0.240 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/21/22 17:59	
Sulfate	75.8 mg/L	0.252	5	5.0	EPA 300.0		NS	6/21/22 21:16	
Radium 226	0.000 +/- 0.352 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.916 +/- 0.546 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	2.73 mg/L				Field Meter	N	SH	6/15/22 13:34	
ORP (ReDox)	210.9 mv				Field Meter	N	SH	6/15/22 13:34	
Temp, Field	21.9 C				Field Meter		SH	6/15/22 13:34	
Turbidity	4.7 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:27	6/16/22 8:33
Alkalinity as CaCO3	118 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 12:39	
Total Dissolved Solids	302 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	12.0 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	6.68 su	1.68			SM 4500-H+B		SH	6/15/22 13:34	
pH, Lab	7.50 su	0.1	1		SM 4500-H+B	H1	JBB	6/24/22 16:21	6/24/22 16:24
Radium, Total	0.916 +/- 0.898 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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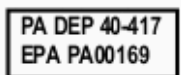
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-011
Date Sampled: 06/14/2022 Time Sampled: 15:44 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: Trib 18787 (3)
Client Sample ID: Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	9.25 NTU						SH	6/14/22	15:44
Specific Conductance, Field	1389.0 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	15:44
Boron, Dissolved	0.289 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	0.232 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	285 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/6/22	22:54
Calcium, Total	253 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/28/22	20:07
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.420 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.932 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.932 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	730 mg/L	0.210	10	1.5	EPA 200.7, Calc		NL	7/28/22	20:07
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0529 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0548 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	0.00184 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.0855 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.0769 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.0297 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	0.0335 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-011
Date Sampled:	06/14/2022	Time Sampled:	15:44
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (3)	Sample Point ID:	Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	31.2 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/21/22 19:51	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/21/22 19:51	
Sulfate	558 mg/L	0.252	20	5.0	EPA 300.0		NS	6/23/22 17:10	
Radium 226	0.257 +/- 0.400 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.0621 +/- 0.500 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	8.27 mg/L				Field Meter	N	SH	6/14/22 15:44	
ORP (ReDox)	308.7 mv				Field Meter	N	SH	6/14/22 15:44	
Temp, Field	21.8 C				Field Meter		SH	6/14/22 15:44	
Turbidity	10 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:28	6/16/22 8:33
Alkalinity as CaCO3	172 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 12:53	
Total Dissolved Solids	1040 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	11.7 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.86 su	1.68			SM 4500-H+B		SH	6/14/22 15:44	
pH, Lab	7.74 su	0.1	1		SM 4500-H+B	H1	JBB	7/7/22 15:07	7/7/22 15:21
Radium, Total	0.319 +/- 0.900 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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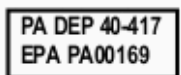
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-012
Date Sampled: 06/14/2022 Time Sampled: 14:51 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: Trib 18788
Client Sample ID: Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	4.29 NTU						SH	6/14/22	14:51
Specific Conductance, Field	1458.0 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	14:51
Boron, Dissolved	0.370 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	0.325 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	287 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/6/22	22:54
Calcium, Total	271 mg/L	0.0384	10	0.500	EPA 200.7	M4	NL	7/28/22	20:07
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.163 mg/L	0.0122	1	0.020	EPA 200.7		NL	7/27/22	2:32
Strontium, Dissolved	0.908 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.916 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	787 mg/L	0.210	10	1.5	EPA 200.7, Calc	M4	NL	7/28/22	20:07
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0323 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0339 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	0.00113 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	0.00180 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.0566 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.0545 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.0228 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	0.0250 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-012
Date Sampled:	06/14/2022	Time Sampled:	14:51
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	Trib 18788	Sample Point ID:	Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	27.3 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/21/22 20:20	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/21/22 20:20	
Sulfate	615 mg/L	0.252	1	5.0	EPA 300.0		NS	6/23/22 17:24	
Radium 226	0.164 +/- 0.321 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.391 +/- 0.356 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	12.70 mg/L				Field Meter	N	SH	6/14/22 14:51	
ORP (ReDox)	313.2 mv				Field Meter	N	SH	6/14/22 14:51	
Temp, Field	22.0 C				Field Meter		SH	6/14/22 14:51	
Turbidity	2.9 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:28	6/16/22 8:33
Alkalinity as CaCO3	177 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 13:08	
Total Dissolved Solids	1110 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.71 su	1.68			SM 4500-H+B		SH	6/14/22 14:51	
pH, Lab	7.71 su	0.1	1		SM 4500-H+B	H1	JBB	7/11/22 16:10	7/11/22 16:36
Radium, Total	0.555 +/- 0.677 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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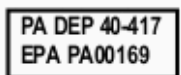
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-013
Date Sampled: 06/14/2022 Time Sampled: 14:51 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: Trib 18788D
Client Sample ID: Trib 18788D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	4.29 NTU						SH	6/14/22	14:51
Specific Conductance, Field	1458.0 uS/cm	5		5	EPA 120.1, FIELD		SH	6/14/22	14:51
Boron, Dissolved	0.394 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	0.323 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	300 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/6/22	22:54
Calcium, Total	260 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/28/22	20:07
Iron, Dissolved	0.0280 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	0.177 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	0.915 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	0.897 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	755 mg/L	0.210	10	1.5	EPA 200.7, Calc		NL	7/28/22	20:07
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0331 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0329 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	0.00121 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	0.00181 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.0570 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.0531 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.0230 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	0.0222 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-013
Date Sampled:	06/14/2022	Time Sampled:	14:51
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	Trib 18788D	Sample Point ID:	Trib 18788D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	27.4 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/21/22 20:48	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/21/22 20:48	
Sulfate	613 mg/L	0.252	20	5.0	EPA 300.0		NS	6/23/22 17:38	
Radium 226	0.514 +/- 0.491 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.290 +/- 0.402 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:45	0:00
Dissolved oxygen	12.70 mg/L				Field Meter	N	SH	6/14/22 14:51	
ORP (ReDox)	313.2 mv				Field Meter	N	SH	6/14/22 14:51	
Temp, Field	22.0 C				Field Meter		SH	6/14/22 14:51	
Turbidity	3.0 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:29	6/16/22 8:33
Alkalinity as CaCO3	178 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 13:22	
Total Dissolved Solids	1130 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	7.0 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.71 su	1.68			SM 4500-H+B		SH	6/14/22 14:51	
pH, Lab	7.68 su	0.1	1		SM 4500-H+B	H1	JBB	7/11/22 16:16	7/11/22 16:36
Radium, Total	0.804 +/- 0.893 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

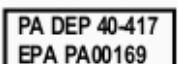
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-014
Date Sampled: 06/14/2022 Time Sampled: 17:39 Sampler: NL
Date Received: 06/15/2022 Sample Point ID: MO 3-5
Client Sample ID: MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Turbidity, Field	3.54 NTU						NL	6/14/22	17:39
Specific Conductance, Field	2791 uS/cm	5		5	EPA 120.1, FIELD		NL	6/14/22	17:39
Boron, Dissolved	0.419 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	0.340 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	393 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/6/22	22:54
Calcium, Total	325 mg/L	0.0384	10	0.500	EPA 200.7		NL	7/28/22	20:07
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	1.33 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	1.06 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	1.03 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	926 mg/L	0.210	10	1.5	EPA 200.7, Calc		NL	7/28/22	20:07
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	0.0252 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	0.0226 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	0.0140 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	0.0156 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	0.0387 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	0.0345 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	0.00263 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	0.00179 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-014
Date Sampled:	06/14/2022	Time Sampled:	17:39
Date Received:	06/15/2022	Sampler:	NL
Client Sample ID:	MO 3-5	Sample Point ID:	MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22 15:41	
Chloride	24.1 mg/L	0.0352	10	1.0	EPA 300.0		NL	6/15/22 22:04	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NL	6/15/22 21:50	
Sulfate	864 mg/L	0.252	50	5.0	EPA 300.0		NL	6/15/22 22:18	
Radium 226	0.340 +/- 0.550 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.699 +/- 0.511 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:46	0:00
Dissolved oxygen	8.14 mg/L				Field Meter	N	NL	6/14/22 17:39	
ORP (ReDox)	172 mv				Field Meter	N	NL	6/14/22 17:39	
Temp, Field	22.1 C				Field Meter		NL	6/14/22 17:39	
Turbidity	6.3 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:30	6/16/22 8:33
Alkalinity as CaCO3	142 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	6/30/22 18:03	
Total Dissolved Solids	1450 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	14.2 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Field	7.21 su	1.68			SM 4500-H+B		NL	6/14/22 17:39	
pH, Lab	7.62 su	0.1	1		SM 4500-H+B	H1	JBB	7/5/22 15:48	7/5/22 16:14
Radium, Total	1.04 +/- 1.06 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

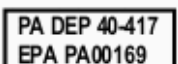
Report Date: 8/17/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2206-01038-015
Date Sampled: 06/14/2022 Time Sampled: 16:59 Sampler: SH
Date Received: 06/15/2022 Sample Point ID: SW FB
Client Sample ID: SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				KLM	7/8/22	2:00
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/1/22	21:49
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	7/27/22	2:32
Calcium, Dissolved	<0.500 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/1/22	21:49
Calcium, Total	<0.500 mg/L	0.0384	1	0.500	EPA 200.7		NL	7/27/22	2:32
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		NL	7/1/22	21:49
Iron, Total	<0.020 mg/L	0.0122	1	0.020	EPA 200.7	B1	NL	7/27/22	2:32
Strontium, Dissolved	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/1/22	21:49
Strontium, Total	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		NL	7/27/22	2:32
Hardness, Total as CaCO3	<1.5 mg/L	0.210	1	1.5	EPA 200.7, Calc		NL	7/27/22	2:32
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	6/20/22	13:58
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	6/20/22	13:58
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Barium, Dissolved	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		NL	6/20/22	13:58
Barium, Total	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	6/20/22	13:58
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	6/20/22	13:58
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	6/20/22	13:58
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	6/20/22	13:58
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	6/20/22	13:58
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	6/20/22	13:58
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	7/8/22	2:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	6/20/22	13:58
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	7/8/22	2:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	7/13/22	15:41
Chloride	1.10 mg/L	0.0352	1	1.0	EPA 300.0		NS	6/15/22	19:43





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 8/17/2022

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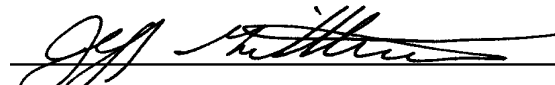
Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2206-01038-015
Date Sampled:	06/14/2022	Time Sampled:	16:59
Date Received:	06/15/2022	Sampler:	SH
Client Sample ID:	SW FB	Sample Point ID:	SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	6/15/22 19:43	
Sulfate	<5.0 mg/L	0.252	1	5.0	EPA 300.0		NS	6/15/22 19:43	
Radium 226	-0.0561+/-0.453 pCi/L		1		EPA 903.1		65-00282	7/22/22 13:00	0:00
Radium 228	0.306 +/- 0.372 pCi/L		1		EPA 904.0		65-00282	7/13/22 17:46	0:00
Turbidity	<1.0 NTU		1	1.0	SM 2130 B		ACM	6/16/22 8:30	6/16/22 8:33
Alkalinity as CaCO3	<20.0 mg/L	1.0	1	20.0	SM 2320 B	A1, H3	JBB	7/5/22 13:38	
Total Dissolved Solids	<10 mg/L	1.0	1	10	SM 2540 C		NR	6/16/22 9:56	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	6/16/22 9:56	
pH, Lab	6.40 su	0.1	1		SM 4500-H+B	H1	JBB	7/11/22 16:18	7/11/22 16:36
Radium, Total	0.306 +/- 0.825 pCi/L		1		Total Radium Calculation		65-00282	7/25/22 13:46	0:00

These results relate only to the sample noted above.

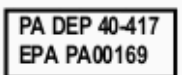
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Jeffrey Gittleman, Laboratory Director

65-00282 = Pace Analytical, PA

- A1 = Alkalinity is determined to a pH endpoint of 4.5 su.
- B1 = Target analyte was measured in the laboratory blank at or above the quantitation limit.
- CCV2 = The CCV recovery was below the acceptance limits. Results may be biased low.
- H1 = Sample was received after the expiration of the holding time.
- H3 = Sample was analyzed outside the required holding time. Results may be biased low.
- M1 = The MS recovery was above the acceptance limits. Result may be biased high
- M4 = Due to sample dilution, matrix spike recovery was outside of the established control limits
- N = Hawk Mtn. Labs does not hold accreditation from the PA-DEP for the field of accreditation.



July 25, 2022

Ms. Amanda Paranac
HAWKMTN LABS INC
201 West Clay Avenue
Hazle Twp, PA 18202

RE: Project: 2206-1038
Pace Project No.: 30498758

Dear Ms. Paranac:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2022. 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 - Greensburg

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

Sincerely,



Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2206-1038
Pace Project No.: 30498758

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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2206-1038
Pace Project No.: 30498758

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30498758001	2206-1038-1	Water	06/14/22 08:57	06/16/22 22:15
30498758002	2206-1038-2	Water	06/14/22 10:48	06/16/22 22:15
30498758003	2206-1038-3	Water	06/14/22 10:48	06/16/22 22:15
30498758004	2206-1038-4	Water	06/14/22 11:45	06/16/22 22:15
30498758005	2206-1038-5	Water	06/14/22 12:16	06/16/22 22:15
30498758006	2206-1038-6	Water	06/14/22 13:03	06/16/22 22:15
30498758007	2206-1038-7	Water	06/14/22 14:00	06/16/22 22:15
30498758008	2206-1038-8	Water	06/14/22 09:46	06/16/22 22:15
30498758009	2206-1038-9	Water	06/14/22 16:48	06/16/22 22:15
30498758010	2206-1038-10	Water	06/15/22 13:34	06/16/22 22:15
30498758011	2206-1038-11	Water	06/14/22 15:44	06/16/22 22:15
30498758012	2206-1038-12	Water	06/14/22 14:51	06/16/22 22:15
30498758013	2206-1038-13	Water	06/14/22 14:51	06/16/22 22:15
30498758014	2206-1038-14	Water	06/14/22 17:39	06/16/22 22:15
30498758015	2206-1038-15	Water	06/14/22 16:59	06/16/22 22:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2206-1038
Pace Project No.: 30498758

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30498758001	2206-1038-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758002	2206-1038-2	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758003	2206-1038-3	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758004	2206-1038-4	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758005	2206-1038-5	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758006	2206-1038-6	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758007	2206-1038-7	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758008	2206-1038-8	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758009	2206-1038-9	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758010	2206-1038-10	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758011	2206-1038-11	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758012	2206-1038-12	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30498758013	2206-1038-13	EPA 903.1	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 2206-1038
Pace Project No.: 30498758

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30498758014	2206-1038-14	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
30498758015	2206-1038-15	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: 2206-1038

Pace Project No.: 30498758

Method: EPA 903.1

Description: 903.1 Radium 226

Client: HAWKMTN Labs. Inc.

Date: July 25, 2022

General Information:

15 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2206-1038
Pace Project No.: 30498758

Method: EPA 904.0
Description: 904.0 Radium 228
Client: HAWKMTN Labs. Inc.
Date: July 25, 2022

General Information:

15 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2206-1038
Pace Project No.: 30498758

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: HAWKMTN Labs. Inc.
Date: July 25, 2022

General Information:

15 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-1 **Lab ID: 30498758001** Collected: 06/14/22 08:57 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.306 (0.687) C:NA T:84%	pCi/L	07/22/22 12:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.664 ± 0.475 (0.917) C:75% T:84%	pCi/L	07/13/22 17:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.664 ± 0.781 (1.60)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-2 **Lab ID: 30498758002** Collected: 06/14/22 10:48 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0633 ± 0.289 (0.681) C:NA T:77%	pCi/L	07/22/22 12:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.425 ± 0.475 (0.993) C:76% T:77%	pCi/L	07/13/22 17:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.425 ± 0.764 (1.67)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-3 **Lab ID: 30498758003** Collected: 06/14/22 10:48 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0731 ± 0.334 (0.679) C:NA T:71%	pCi/L	07/22/22 12:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.18 ± 0.638 (1.14) C:76% T:71%	pCi/L	07/13/22 17:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 0.972 (1.82)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2206-1038-4 Lab ID: 30498758004 Collected: 06/14/22 11:45 Received: 06/16/22 22:15 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0609 ± 0.278 (0.655) C:NA T:82%	pCi/L	07/22/22 12:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.736 ± 0.465 (0.871) C:79% T:82%	pCi/L	07/13/22 17:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.736 ± 0.743 (1.53)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-5 **Lab ID: 30498758005** Collected: 06/14/22 12:16 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.223 ± 0.269 (0.410) C:NA T:83%	pCi/L	07/22/22 12:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.377 ± 0.414 (0.861) C:74% T:83%	pCi/L	07/13/22 17:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.600 ± 0.683 (1.27)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-6 **Lab ID: 30498758006** Collected: 06/14/22 13:03 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.132 ± 0.318 (0.794) C:NA T:84%	pCi/L	07/22/22 12:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.939 ± 0.526 (0.949) C:72% T:84%	pCi/L	07/13/22 17:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.939 ± 0.844 (1.74)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-7 **Lab ID: 30498758007** Collected: 06/14/22 14:00 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.122 ± 0.293 (0.567) C:NA T:81%	pCi/L	07/22/22 12:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	-0.276 ± 0.366 (0.925) C:75% T:81%	pCi/L	07/13/22 17:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.122 ± 0.659 (1.49)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-8 **Lab ID: 30498758008** Collected: 06/14/22 09:46 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0656 ± 0.299 (0.609) C:NA T:73%	pCi/L	07/22/22 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.543 ± 0.448 (0.878) C:74% T:73%	pCi/L	07/13/22 17:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.543 ± 0.747 (1.49)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038
Pace Project No.: 30498758

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2206-1038-9 Lab ID: 30498758009 Collected: 06/14/22 16:48 Received: 06/16/22 22:15 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0675 ± 0.512 (1.01) C:NA T:77%	pCi/L	07/22/22 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.544 ± 0.474 (0.944) C:68% T:77%	pCi/L	07/13/22 17:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.612 ± 0.986 (1.95)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-10 **Lab ID: 30498758010** Collected: 06/15/22 13:34 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.352 (0.763) C:NA T:74%	pCi/L	07/22/22 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.916 ± 0.546 (1.00) C:75% T:74%	pCi/L	07/13/22 17:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.916 ± 0.898 (1.76)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-11 **Lab ID: 30498758011** Collected: 06/14/22 15:44 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.257 ± 0.400 (0.692) C:NA T:81%	pCi/L	07/22/22 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.0621 ± 0.500 (1.14) C:72% T:81%	pCi/L	07/13/22 17:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.319 ± 0.900 (1.83)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2206-1038-12 Lab ID: 30498758012 Collected: 06/14/22 14:51 Received: 06/16/22 22:15 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.164 ± 0.321 (0.587) C:NA T:86%	pCi/L	07/22/22 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.391 ± 0.356 (0.715) C:80% T:86%	pCi/L	07/13/22 17:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.555 ± 0.677 (1.30)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2206-1038-13 Lab ID: 30498758013 Collected: 06/14/22 14:51 Received: 06/16/22 22:15 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.514 ± 0.491 (0.748) C:NA T:84%	pCi/L	07/22/22 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.290 ± 0.402 (0.860) C:74% T:84%	pCi/L	07/13/22 17:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.804 ± 0.893 (1.61)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2206-1038-14 Lab ID: 30498758014 Collected: 06/14/22 17:39 Received: 06/16/22 22:15 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.340 ± 0.550 (0.957) C:NA T:78%	pCi/L	07/22/22 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.699 ± 0.511 (0.995) C:79% T:78%	pCi/L	07/13/22 17:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04 ± 1.06 (1.95)	pCi/L	07/25/22 13:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

Sample: 2206-1038-15 **Lab ID: 30498758015** Collected: 06/14/22 16:59 Received: 06/16/22 22:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0561 ± 0.453 (0.934) C:NA T:91%	pCi/L	07/22/22 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.306 ± 0.372 (0.787) C:80% T:91%	pCi/L	07/13/22 17:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.306 ± 0.825 (1.72)	pCi/L	07/25/22 13:46	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

QC Batch: 513197

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: 30498758001, 30498758002, 30498758003, 30498758004, 30498758005, 30498758006, 30498758007, 30498758008, 30498758009, 30498758010, 30498758011, 30498758012, 30498758013, 30498758014, 30498758015

METHOD BLANK: 2487436

Matrix: Water

Associated Lab Samples: 30498758001, 30498758002, 30498758003, 30498758004, 30498758005, 30498758006, 30498758007, 30498758008, 30498758009, 30498758010, 30498758011, 30498758012, 30498758013, 30498758014, 30498758015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0409 ± 0.301 (0.697) C:81% T:87%	pCi/L	07/13/22 17:44	

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2206-1038

Pace Project No.: 30498758

QC Batch: 513196

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: 30498758001, 30498758002, 30498758003, 30498758004, 30498758005, 30498758006, 30498758007, 30498758008, 30498758009, 30498758010, 30498758011, 30498758012, 30498758013, 30498758014, 30498758015

METHOD BLANK: 2487434

Matrix: Water

Associated Lab Samples: 30498758001, 30498758002, 30498758003, 30498758004, 30498758005, 30498758006, 30498758007, 30498758008, 30498758009, 30498758010, 30498758011, 30498758012, 30498758013, 30498758014, 30498758015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.265 (0.594) C:NA T:87%	pCi/L	07/22/22 12:46	

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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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 2206-1038
Pace Project No.: 30498758

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

HAWKMTN LABS INC
 201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkmtnlabs.com

CHAIN OF CUSTODY
SAMPLE SUBMISSION RECORDER

WO#: 30498758

Customer: HAWK MTN LABS
Address:
City:
State: Zip Code:
Phone: () - () - ()
Fax: () - () - ()

Project: TO: PAC
Report To:
Invoice To:
PO#:

Delivery:
 Fax
 Email
 Web
 Mail
 *surcharge applies

Container Size:
 40 mL 500 mL
 100 mL 1 Liter
 250 mL 1/2 gal
Container Type:
 AG = Amber Glass
 CG = Clear Glass
 PL = Plastic

Matrix:
 SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SCM = Solid/Chemical Waste
 OT = Other

Comments:
 SAMPLES FROM PA

Bacterial Samples Accepted:
 Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	DATE SAMPLED	TIME SAMPLED	Q. GRAB	Q. COMPOSITE
2206-1038-1		6/14/22	0857	NPW	
2206-1038-2		6/14/22	1048	NPW	
2206-1038-3		6/14/22	1048	NPW	
2206-1038-4		6/14/22	1145	NPW	
2206-1038-5		6/14/22	1216	NPW	
2206-1038-6		6/14/22	1303	NPW	

ANALYSES / METHOD REQUESTED

Container Type	PL				
Container Size	IL				
Preservative	HNO3				

TEMPERATURE (°C)

Enter Number of Containers Per Analysis

	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1

UPON RECEIPT

RECEIVED BY (SIGN): HML
RECEIVED BY (PRINT): HML
RECEIVED AT LAB: 6-16-22 1545
COC REVIEWED: TB

DEP Drinking Water ONLY

Received From: Amount: \$
 HML Walk in Y/N
 Courier Y/N
 FED EX Y/N
 UPS Y/N
 USPS Y/N

Payment: Cash Credit Card Check #
 Paid by: Cash Credit Card Check #

Entry Point: Distribution Point: Location: Quarterly Monthly Special
 Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Special Follow Up
 Raw Plant Initial

Are these samples for permit reporting purposes? Yes No
If Yes, which agency?
 FHA NPDES PWS #
 Landfill, Water Landfill, Solid Waste
 Department of Health Undergound Storage Tank
 Oil and Gas Bureau of Mining
 Other

Page 1 of 3
 RDS-008-F-02A REV 009
 6-16-22 1845
 RDS-008-F-02A REV 009
 6-16-22 1845
 RDS-008-F-02A REV 009
 6-16-22 1845

WO#: 30498758

2 of 3

**CHAIN OF CUSTODY
SAMPLE SUBMISSION RECORD**

HAWK MOUNTAIN LABS INC
201 West Clay Avenue / Hazle Township, PA 18202
Phone: (570) 455-6011 Fax: (570) 455-6321
www.hawkmtlabs.com

PH: SLS Due Date: 07/11/22
CLIENT: HAWK

DIRECTIONS: Ink only; Complete legibly; Gray areas are for only; Incomplete, damaged, or illegible COC will delay your sale.

Customer: **HAWK MTN LABS** Project: **TO: PAE: PA**

Address: _____ Report To: _____

City: _____ State: _____ Zip Code: _____ Invoice To: _____

Email: _____ Phone: _____ PG# _____ Fax: _____

Data Delivery: Fax Email Web Mail

Turn Around Time:
 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 Other: _____ *surcharge applies

Container Size	Matrix:	Comments:	Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED	TEMPERATURE (°C)
40 mL	SO = Soil	SAMPLES FROM PA	PL				
100 mL	DW = Drinking Water		IL				
250 mL	NPW = Non Potable Water		HNO3				
Container Type:	SCM = Solid/Chemical Waste						
AG = Amber Glass	OT = Other						
CG = Clear Glass							
PL = Plastic							
Bacterial Samples Accepted:	Monday - Thursday 8 a.m. - 4 p.m. Friday 8 a.m. - 12 p.m.						
HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	DATE SAMPLED	TIME SAMPLED	MATRIX	Enter Number of Containers Per Analysis		
	2206-1038-7	6/14/22	1400	NPW	1	1	00A
	2206-1038-8	6/14/22	0946	NPW	1	1	00B
	2206-1038-9	6/14/22	1048	NPW	1	1	00C
	2206-1038-10	6/15/22	1331	NPW	1	1	010
	2206-1038-11	6/14/22	1514	NPW	1	1	011
	2206-1038-12	6/14/22	1451	NPW	1	1	01A

SAMPLED BY (SIGN): **HML**

RECEIVED BY: **TAL** Date: 6/22/22 Time: 12:49

RECEIVED AT LAB: **TAL** Date: 6/22/22 Time: 12:49

LOGGED IN BY: _____

Are these samples for permit reporting purposes? Yes No

If Yes, which agency? FHA NPDES PWS # Landfill/Water Landfill/Solid Waste Department of Health Underground Storage Tank Oil and Gas Bureau of Mining Other _____

DEP Drinking Water ONLY
 PWSID #: _____ Distribution Point: _____ Location: _____
 Entry Point: _____ Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Special Follow Up
 Raw Plant Initial

Received From Amount: \$ _____
 HML Walk In _____
 Courier FED EX _____
 USPS _____
 Paid by: Cash _____ Credit Card _____ Check _____ # _____

Receipt Info:
 Received on ice? Y/N _____
 Samples intact? Y/N _____
 COC intact and complete? Y/N _____
 Correct Containers? Y/N _____
 Adequate Samples? Y/N _____
 Volatiles Headspace Present? Y/N _____
 Correct Preserve Y/N _____
 Completed by: _____

QSP-008-F-00A REV-609 RDS HCE 6-16-22 1845 RDS HCE 6-16-22 2215 QSP-008-F-00A REV-609

67622 1229 TB) 6-16-22 1545 TB) 1823



201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkminlabs.com

CHAIN OF CUSTODY

SAMPLE SUBMISSION RECORD

DIRECTIONS: Ink only; Complete legibly; Gray areas are for lab only; Incomplete, damaged, or illegible COC will delay your sample.

W/O#: 30498758

PM: SLS
 CLIENT: HAWK

Due Date: 07/11/22

Customer: **HAWK MIN LABS**

Project: **TO: PAE**

Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____
 Email: _____ Fax: _____

Report To: _____
 Invoice To: _____
 PO# _____

Data Delivery:
 Fax
 Email
 Web
 Mail

Turn Around Time:
 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 Other: _____
 *surcharge applies

Container Size:
 40 mL 500 mL
 100 mL 1 Liter
 250 mL 1/2 gal

Container Type:
 AG = Amber Glass
 CG = Clear Glass
 PL = Plastic

Matrix:
 SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SOM = Solid/Chemical Waste
 OT = Other

Comments:
SAMPLES FROM PA

Bacterial Samples Accepted:
 Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

Container Type: **PL**
 Container Size: **IL**
 Preservative: **HNO3**

ANALYSES / METHOD REQUESTED

RADIUM
DATE
RADIUM
DATE
TOTAL
CAUCULATION

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	G. GRAB	C. COMPOSITE	DATE SAMPLED	TIME SAMPLED	MATRIX
	2206-1038-13	G		6/14/22	11:51	NPW
	2206-1038-14	G		6/14/22	17:39	NPW
	2206-1038-15	G		6/14/22	16:53	NPW

Enter Number of Containers Per Analysis	TEMPERATURE (°C)
1	013
1	014
1	015

SAMPLED BY (PRINT): **HML**
 RELINQUISHED BY: **[Signature]**
 RECEIVED BY: **[Signature]**
 LOGGED IN BY: **[Signature]**

SAMPLED BY (SIGN): **HML**
 RECEIVED AT LAB: **[Signature]**
 COC REVIEWED: _____

Receipt Info:
 Received on ice? Y/N
 Samples intact? Y/N
 CGC intact and complete? Y/N
 Correct Containers? Y/N
 Adequate Samples? Y/N
 Volatiles: Headspace Present? Y/N
 Correct Preserve Completed by: _____

Received From: _____
 HML Walk in Courier
 Paid by: Cash
 Credit Card # _____
 Check # _____

DEP Drinking Water Only
 PWSID #: _____
 Entry Point: _____
 Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Special
 Raw Plant Initial Follow Up

Are these samples for permit reporting purposes? Yes ___ No ___
 If Yes, which agency?
 FHA
 NPDES
 PWS #
 Landfill, Water
 Landfill, Solid Waste
 Department of Health
 Underground Storage Tank
 Oil and Gas
 Bureau of Mining
 Other _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Hawk MTRN

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label	<u>AA</u>
LIMS Login	<u>AP</u>

Tracking #: _____

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

Thermometer Used 16 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 1.9 °C Correction Factor: 0 °C Final Temp: 1.9 °C

Temp should be above freezing to 6°C

W0#: 30498758
 PM: SLS
 CLIENT: HAWK
 Due Date: 07/11/22

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>6/17/22 AA</u>
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <u>Missing time and date.</u>
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <u>PW L 2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>AA</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>AA</u> Date: <u>6/17/22</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
 Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples intact?	<input checked="" type="checkbox"/> / N
Transported on ice?	<input checked="" type="checkbox"/> / N
COC intact and complete?	<input checked="" type="checkbox"/> / N
Correct containers?	<input checked="" type="checkbox"/> / N
Adequate samples?	<input checked="" type="checkbox"/> / N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / N
Completed by:	SH
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y / N <input checked="" type="checkbox"/> N

Subject Line: Montour 2022 Surface Water Project
 Work Order #: 2206-01038 Sample ID: ECC-1
 Sample 001: ECC-1

Matrix: Non Potable Water

Printed On: 6/1/2022
 Printed By: SH
 Approved By: SH

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	19.8	C	SH
Turbidity, Field	WA-FTURB	16.05	NTU	SH
ORP (ReDox)	WA-ORP	341.9	mv	SH
Dissolved oxygen	WA-DO	8.19	mg/L	SH
pH, Field	WA-FPH	7.15	su	SH
Specific Conductance, Field	WA-SPEC.-F	182.5	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.6	C	SH
pH meter ID	QC-PHMETER	451059772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
 Bottles Made By: KD Bottles Checked By: SH Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>SH</u>	6-14-22	8:57
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>SH</u>	6-15-22	6:30
	Logged in By:	<u>Amara</u>	6/15/22	11:21

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** MCC-1
Sample 002: MCC-1

Printed On: 6/1/2022
 Printed By: SH
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

				Tech
Temp, Field	WA-FT	19.0	C	SH
Turbidity, Field	WA-FTURB	6.52	NTU	SH
ORP (ReDox)	WA-ORP	323.7	mv	SH
Dissolved oxygen	WA-DO	7.98	mg/L	SH
pH, Field	WA-FPH	7.21	su	SH
Specific Conductance, Field	WA-SPEC.-F	181.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	9.3	C	SH
pH meter ID	QC-PHMETER	752055772		SH

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: LD **Bottles Checked By:** SH **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / (N)	SWL Required - Y / (N)	Date:	Time:
				6-14-22
			-	-
			-	-
			-	-
			6-15-22	6:30
			6/15/22	11:21

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** MCC-1D
Sample 003: MCC-1D

Printed On: 6/1/2022
 Printed By: HP
 Approved By: u

Matrix: Non Potable Water

Pick up date:

				Tech
Temp, Field	WA-FT	19.0	C	SH
Turbidity, Field	WA-FTURB	6.5	NTU	SH
ORP (ReDox)	WA-ORP	727.7	mv	SH
Dissolved oxygen	WA-DO	7.98	mg/L	SH
pH, Field	WA-FPH	7.21	su	SH
Specific Conductance, Field	WA-SPEC.-F	181.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	6.0	C	SH
pH meter ID	QC-PHMETER	8505172		SH

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments:

Bottles Made By: YD Bottles Checked By: read Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:

Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
		6-14-22	10:48
Sampled By:	<u>[Signature]</u>		
Relinquished By:	-		
Received By:	-		
Relinquished By:	-		
Received at Lab By:	<u>[Signature]</u>	6-15-22	6:30
Logged in By:	<u>[Signature]</u>	6/15/22	1121

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	JH		
Samples/COC/Analysis agree?	Y	/	N

Chain of Custody

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** CC-1
Sample 004: CC-1

Printed On: 6/1/2022
 Printed By: JH
 Approved By: u

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	20.0	C	SN
Turbidity, Field	WA-FTURB	16.33	NTU	SH
ORP (ReDox)	WA-ORP	308.1	mv	SH
Dissolved oxygen	WA-DO	7.40	mg/L	SH
pH, Field	WA-FPH	7.51	su	JH
Specific Conductance, Field	WA-SPEC.-F	192.2	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.7	C	SH
pH meter ID	QC-PHMETER	755055772		SH

Sampling Comments: _____
Bottles Made By: JH **Bottles Checked By:** m.p.c. **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / <input checked="" type="checkbox"/> N	SWL Required - <input checked="" type="checkbox"/> Y / N	Date:	Time:
		Sampled By: <u>JH</u>		6-14-22
	Relinquished By: _____		-	-
	Received By: _____		-	-
	Relinquished By: _____		-	-
	Received at Lab By: <u>JH</u>		6-15-22	6:30
	Logged in By: <u>Amir</u>		6/15/22	11:21

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> / N
Transported on ice?	<input checked="" type="checkbox"/> / N
COC intact and complete?	<input checked="" type="checkbox"/> / N
Correct containers?	<input checked="" type="checkbox"/> / N
Adequate samples?	<input checked="" type="checkbox"/> / N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / N
Completed by:	SH
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** CC-2
Sample 005: CC-2

Printed On: 6/1/2022
 Printed By: ALP
 Approved By: M

Matrix: Non Potable Water

Pick up date:

				Tech
Temp, Field	WA-FT	20.0	C	SH
Turbidity, Field	WA-FTURB	11.14	NTU	SH
ORP (ReDox)	WA-ORP	316.4	mv	SH
Dissolved oxygen	WA-DO	7.10	mg/L	SH
pH, Field	WA-FPH	7.41	su	SH
Specific Conductance, Field	WA-SPEC.-F	187.1	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.5	C	SH
pH meter ID	QC-PHMETER	75205577		SH

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: (V) **Bottles Checked By:** MW **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / <input checked="" type="checkbox"/> N	SWL Required - Y / <input checked="" type="checkbox"/> N	Date: 6-14-22	Time: 12:16
	Sampled By: <u>[Signature]</u>		6-14-22	
	Relinquished By: _____			
	Received By: _____			
	Relinquished By: _____			
	Received at Lab By: <u>[Signature]</u>		6-15-22	6:30
Logged in By: <u>[Signature]</u>		6/15/22	11:21	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
 Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
 Work Order #: 2206-01038 Sample ID: CC-3
 Sample 006: CC-3

Printed On: 6/1/2022
 Printed By: ALP
 Approved By: u

Matrix: Non Potable Water

Pick up date:

				Tech
Temp, Field	WA-FT	21.9	C	SH
Turbidity, Field	WA-FTURB	11.81	NTU	SH
ORP (ReDox)	WA-ORP	321.2	mv	SH
Dissolved oxygen	WA-DO	7.57	mg/L	SH
pH, Field	WA-FPH	7.44	su	SH
Specific Conductance, Field	WA-SPEC.-F	246.1	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	6.5	C	SH
pH meter ID	QC-PHMETER	751085772		SH

- Bottles:
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

Sampling Comments: _____
 Bottles Made By: YD Bottles Checked By: MX Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
			<u>SH</u>	6-14-22
	Sampled By:			
	Relinquished By:			
	Received By:			
	Relinquished By:			
	Received at Lab By:	<u>SH</u>	6-15-22	6:30
	Logged in By:	<u>Quang Phanuc</u>	6/15/22	11:21

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.

201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** CC-4
Sample 007: CC-4

Printed On: 6/1/2022
 Printed By: SH
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	22.6	C	SH
Turbidity, Field	WA-FTURB	6.89	NTU	SH
ORP (ReDox)	WA-ORP	319.2	mv	SH
Dissolved oxygen	WA-DO	7.82	mg/L	SH
pH, Field	WA-FPH	7.53	su	SH
Specific Conductance, Field	WA-SPEC.-F	254.5	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.8	C	SH
pH meter ID	QC-PHMETER	452055772		SH

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** SH **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
				6-14-22
			-	-
			-	-
			-	-
			6-15-22	6:30
			6/15/22	11:21

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** Trib 18790
Sample 008: Trib 18790

Matrix: Non Potable Water

Printed On: 6/1/2022
Printed By: ALP
Approved By: u

Pick up date:

				Tech
Temp, Field	WA-FT	17.4	C	SH
Turbidity, Field	WA-FTURB	42.03	NTU	SH
ORP (ReDox)	WA-ORP	119.1	mv	SH
Dissolved oxygen	WA-DO	2.88	mg/L	SH
pH, Field	WA-FPH	7.02	su	SH
Specific Conductance, Field	WA-SPEC.-F	746.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.8	C	SH
pH meter ID	QC-PHMETER	48155772		SH

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: VD **Bottles Checked By:** mm **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - <u>Y/N</u>	SWL Required - <u>Y/N</u>	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>6-14-22</u>	<u>9:46</u>
	Relinquished By:	_____	_____	_____
	Received By:	_____	_____	_____
	Relinquished By:	_____	_____	_____
	Received at Lab By:	<u>[Signature]</u>	<u>6-15-22</u>	<u>6:30</u>
	Logged in By:	<u>[Signature]</u>	<u>6/15/22</u>	<u>11:21</u>

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** Trib 18787 (1)
Sample 009: Trib 18787 (1)

Printed On: 6/1/2022
 Printed By: ALP
 Approved By: ALP

Matrix: Non Potable Water

Pick up date:

Temp, Field	WA-FT	23.1	C	SH
Turbidity, Field	WA-FTURB	25.30	NTU	SH
ORP (ReDox)	WA-ORP	320.1	mv	SH
Dissolved oxygen	WA-DO	4.25	mg/L	SH
pH, Field	WA-FPH	7.08	su	SH
Specific Conductance, Field	WA-SPEC.-F	397.4	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	6.5	C	SH
pH meter ID	QC-PHMETER	75205772		SH

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: WD **Bottles Checked By:** mm **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	6-14-22	16:48
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>[Signature]</u>	6-15-22	6:30
Logged in By:	<u>Amanda Barone</u>	6/15/22	11:21	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** Trib 18787 (2)
Sample 010: Trib 18787 (2)

Printed On: 6/1/2022
Printed By: HP
Approved By: u

Matrix: Non Potable Water

Pick up date:

				Tech
Temp, Field	WA-FT	21.9	C	SH
Turbidity, Field	WA-FTURB	4.92	NTU	SH
ORP (ReDox)	WA-ORP	210.9	mv	SH
Dissolved oxygen	WA-DO	2.73	mg/L	SH
pH, Field	WA-FPH	6.68	su	SH
Specific Conductance, Field	WA-SPEC.-F	524.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.5	C	SH
pH meter ID	QC-PHMETER	Y52058772		SH

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: YD **Bottles Checked By:** MM **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y/N	SWL Required Y/N	Date:	Time:
				6-15-22
			-	-
			-	-
			-	-
			6-15-22	14:50
			6/15/22	1532

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** Trib 18787 (3)
Sample 011: Trib 18787 (3)

Matrix: Non Potable Water

Printed On: 6/1/2022
 Printed By: AP
 Approved By: SH

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	21.8	C	SH
Turbidity, Field	WA-FTURB	9.25	NTU	SH
ORP (ReDox)	WA-ORP	308.7	mv	SH
Dissolved oxygen	WA-DO	8.27	mg/L	SH
pH, Field	WA-FPH	7.86	su	SH
Specific Conductance, Field	WA-SPEC.-F	1389.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	6.1	C	SH
pH meter ID	QC-PHMETER	YSI055772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: KN **Bottles Checked By:** SH **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>SH</u>	6-14-22	15:44
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>SH</u>	6-15-22	6:30
Logged in By:	<u>Amanda Parasc</u>	6/15/22	11:21	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.

201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** Trib 18788
Sample 012: Trib 18788

Printed On: 6/1/2022
 Printed By: AP
 Approved By: AP

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	22.0	C	SH
Turbidity, Field	WA-FTURB	4.29	NTU	SH
ORP (ReDox)	WA-ORP	313.2	mv	SH
Dissolved oxygen	WA-DO	12.70	mg/L	SH
pH, Field	WA-FPH	7.71	su	SH
Specific Conductance, Field	WA-SPEC.-F	1458.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	6.4	C	SH
pH meter ID	QC-PHMETER	751055772		SH

Sampling Comments: _____
Bottles Made By: KD **Bottles Checked By:** JMC **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / <u>N</u>	SWL Required - Y / <u>N</u>	Date:	Time:
	Sampled By:	<u>[Signature]</u>	6-14-22	14:51
	Relinquished By:	_____	_____	_____
	Received By:	_____	_____	_____
	Relinquished By:	_____	_____	_____
	Received at Lab By:	<u>[Signature]</u>	6-15-22	6:30
Logged in By:	<u>[Signature]</u>	6/15/22	1121	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
 Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
 Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
 Work Order #: 2206-01038 Sample ID: Trib 18788D
 Sample 013: Trib 18788D

Printed On: 6/1/2022
 Printed By: ALP
 Approved By: ALP

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	22.0	C	SH
Turbidity, Field	WA-FTURB	4.29	NTU	SH
ORP (ReDox)	WA-ORP	313.2	mv	SH
Dissolved oxygen	WA-DO	12.70	mg/L	SH
pH, Field	WA-FPH	7.71	su	SH
Specific Conductance, Field	WA-SPEC.-F	1458.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.9	C	SH
pH meter ID	QC-PHMETER	451055772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments:

Bottles Made By: ALP Bottles Checked By: ALP Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:

	Flow Required - Y / (N)	SWL Required - Y / (N)	Date:	Time:
Sampled By:			6-14-22	14:51
Relinquished By:			-	-
Received By:			-	-
Relinquished By:			-	-
Received at Lab By:			6-15-22	6:30
Logged in By:			6/15/22	1121

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

PO: 684951
Contact: john.mccabe.iii@talenergy.com

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	HP
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 **Sample ID:** MO 3-5
Sample 014: MO 3-5

Printed On: 6/1/2022
 Printed By: HP
 Approved By: HP

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>22.1</u>	C	<u>HP</u>
Turbidity, Field	WA-FTURB	<u>3.54</u>	NTU	<u>HP</u>
ORP (ReDox)	WA-ORP	<u>172</u>	mv	<u>HP</u>
Dissolved oxygen	WA-DO	<u>8.14</u>	mg/L	<u>HP</u>
pH, Field	WA-FPH	<u>7.21</u>	su	<u>HP</u>
Specific Conductance, Field	WA-SPEC.-F	<u>2791</u>	uS/cm	<u>HP</u>
Temp Upon Receipt	QC-TEMPREC	<u>2.0</u>	C	<u>HP</u>
pH meter ID	QC-PHMETER	<u>151772</u>		<u>HP</u>

Sampling Comments:

Bottles Made By: HP Bottles Checked By: HP Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:

Flow Required - Y / <input checked="" type="checkbox"/>	SWL Required - Y / <input checked="" type="checkbox"/>	Date:	Time:
Sampled By:	<u>HP</u>	<u>6/14/22</u>	<u>1739</u>
Relinquished By:	<u>HP</u>	<u>6/15/22</u>	<u>1041</u>
Received By:	_____	_____	_____
Relinquished By:	_____	_____	_____
Received at Lab By:	<u>Manda Parace</u>	<u>6/15/22</u>	<u>1048</u>
Logged in By:	<u>Manda Parace</u>	<u>6/15/22</u>	<u>1210</u>

Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2206-01038 Sample ID: SW FB
Sample 015: SW FB

Printed On: 6/1/2022
Printed By: ALP
Approved By: u

Matrix: Non Potable Water

Pick up date:

Temp Upon Receipt QC-TEMPREC 5.6 C Tech SH

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

[Empty box]

Sampling Comments: _____
Bottles Made By: KD Bottles Checked By: ml Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
		<u>SH</u>	<u>6-14-22</u>	<u>16:59</u>
		<u>-</u>	<u>-</u>	<u>-</u>
		<u>-</u>	<u>-</u>	<u>-</u>
		<u>-</u>	<u>-</u>	<u>-</u>
		<u>SH</u>	<u>6-15-22</u>	<u>6:30</u>
		<u>Andrew Pearce</u>	<u>6/15/22</u>	<u>11:21</u>



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Revised Report Date: 12/2/2022 Page 1 of 31

Report Narrative

HawkMtn WO #: 2209-01054
Subject Line: Montour 2022 Surface Water Project

Lab pH hold time is immediate (defined as 15 minutes from sampling time).

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on "a dry weight" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc.

and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependent on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.

PA DEP 40-417
EPA PA00169



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

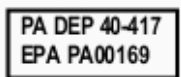
Report Date: 11/10/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-001
Date Sampled: 09/23/2022 Time Sampled: 9:17 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: ECC-1
Client Sample ID: ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22	20:45
Specific Conductance, Field	235.6 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22	9:17
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22	21:07
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22	21:19
Calcium, Dissolved	27.2 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22	21:07
Calcium, Total	26.9 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22	21:19
Iron, Dissolved	0.0440 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Iron, Total	0.725 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Strontium, Dissolved	0.0970 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Strontium, Total	0.101 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Hardness, Total as CaCO3	87.6 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22	21:19
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22	0:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22	20:45
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22	0:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22	20:45
Barium, Dissolved	0.0286 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22	0:47
Barium, Total	0.0321 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22	20:45
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22	0:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22	20:45
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22	0:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lithium, Total	0.00199 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22	20:45
Molybdenum, Dissolved	0.00107 mg/L	0.000300	1	0.001	EPA 200.8	D1	NL	10/21/22	20:08
Molybdenum, Total	0.00953 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22	20:45
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22	0:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22	20:45
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22	0:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22	20:45
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/3/22	8:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22	11:24
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22	11:24





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 11/10/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-001
Date Sampled: 09/23/2022 Time Sampled: 9:17 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: ECC-1
Client Sample ID: ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	11.6 mg/L	0.0352	5	1.0	EPA 300.0		NS	9/27/22 15:00	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0	M1	NS	9/26/22 14:07	
Sulfate	23.1 mg/L	0.252	1	5.0	EPA 300.0		NS	9/26/22 14:07	
Radium 226	-0.296+/-0.504 pCi/L		1	1.17	EPA 903.1		65-00282	10/8/22 13:07	0:00
Radium 228	0.363 +/- 0.478 pCi/L		1	1.02	EPA 904.0		65-00282	10/12/22 12:58	0:00
Dissolved oxygen	9.70 mg/L				Field Meter	N	SH	9/23/22 9:17	
ORP (ReDox)	149.5 mv				Field Meter	N	SH	9/23/22 9:17	
Temp, Field	13.9 C				Field Meter		SH	9/23/22 9:17	
Turbidity, Field	10.40 NTU				Field Meter		SH	9/23/22 9:17	
Turbidity	11 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:16	9/26/22 10:23
Alkalinity as CaCO3	64.4 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 11:53	
Total Dissolved Solids	124 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	9.6 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.63 su	1.68			SM 4500-H+B		SH	9/23/22 9:17	
pH, Lab	7.22 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:39	9/26/22 16:08
Radium, Total	0.363 +/- 0.982 pCi/L		1	2.19	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



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Washingtonville, PA 17884

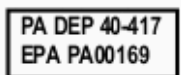
Report Date: 11/10/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-002
Date Sampled: 09/23/2022 Time Sampled: 10:51 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: MCC-1
Client Sample ID: MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22 20:45	
Specific Conductance, Field	228.3 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22 10:51	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22 21:19	
Calcium, Dissolved	26.0 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	25.2 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22 21:19	
Iron, Dissolved	0.0910 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	0.520 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Strontium, Dissolved	0.0970 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.103 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Hardness, Total as CaCO3	90.9 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22 21:19	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22 0:47	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22 20:45	0:00
Barium, Dissolved	0.0240 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Barium, Total	0.0312 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lithium, Dissolved	0.00239 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lithium, Total	0.00373 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Molybdenum, Total	0.00492 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22 0:47	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22 20:45	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22 0:47	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22 20:45	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/3/22 8:41	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22 11:24	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22 11:24	





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 11/10/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-002
Date Sampled:	09/23/2022	Time Sampled:	10:51
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	MCC-1	Sample Point ID:	MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	9.67 mg/L	0.0352	5	1.0	EPA 300.0		NS	9/30/22 0:30	
Fluoride	0.240 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/26/22 12:28	
Sulfate	36.4 mg/L	0.252	1	5.0	EPA 300.0		NS	9/26/22 12:28	
Radium 226	1.53 +/- 0.787 pCi/L		1	0.826	EPA 903.1		65-00282	10/8/22 13:07	0:00
Radium 228	2.24 +/- 0.784 pCi/L		1	1.11	EPA 904.0		65-00282	10/12/22 12:59	0:00
Dissolved oxygen	8.92 mg/L				Field Meter	N	SH	9/23/22 10:51	
ORP (ReDox)	159.1 mv				Field Meter	N	SH	9/23/22 10:51	
Temp, Field	15.8 C				Field Meter		SH	9/23/22 10:51	
Turbidity, Field	11.12 NTU				Field Meter		SH	9/23/22 10:51	
Turbidity	12 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:17	9/26/22 10:23
Alkalinity as CaCO3	52.2 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 12:03	
Total Dissolved Solids	121 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	8.0 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.33 su	1.68			SM 4500-H+B		SH	9/23/22 10:51	
pH, Lab	7.20 su	0.1	1		SM 4500-H+B	H1	JBB	9/27/22 14:53	9/27/22 15:04
Radium, Total	3.77 +/- 1.57 pCi/L		1	1.94	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

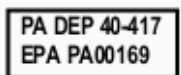
Report Date: 11/10/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-003
Date Sampled: 09/23/2022 Time Sampled: 11:45 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: CC-1
Client Sample ID: CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22 20:45	
Specific Conductance, Field	234.5 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22 11:45	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22 21:19	
Calcium, Dissolved	26.8 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	27.0 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22 21:19	
Iron, Dissolved	0.0740 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	0.607 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Strontium, Dissolved	0.0930 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.104 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Hardness, Total as CaCO3	92.7 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22 21:19	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22 0:47	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22 20:45	0:00
Barium, Dissolved	0.0270 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Barium, Total	0.0340 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lithium, Dissolved	0.00153 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lithium, Total	0.00284 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Molybdenum, Total	0.00317 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22 0:47	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22 20:45	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22 0:47	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22 20:45	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/3/22 8:41	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22 11:24	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22 11:24	





Customer: Montour, LLC
18 McMichael Road
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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-003
Date Sampled:	09/23/2022	Time Sampled:	11:45
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	CC-1	Sample Point ID:	CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	11.0 mg/L	0.0352	5	1.0	EPA 300.0		NS	9/27/22 16:24	
Fluoride	0.200 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/26/22 12:42	
Sulfate	28.1 mg/L	0.252	1	5.0	EPA 300.0		NS	9/26/22 12:42	
Radium 226	0.455 +/- 0.517 pCi/L		1	0.816	EPA 903.1		65-00282	10/8/22 13:07	0:00
Radium 228	0.885 +/- 0.499 pCi/L		1	0.899	EPA 904.0		65-00282	10/12/22 12:59	0:00
Dissolved oxygen	9.11 mg/L				Field Meter	N	SH	9/23/22 11:45	
ORP (ReDox)	157.7 mv				Field Meter	N	SH	9/23/22 11:45	
Temp, Field	15.0 C				Field Meter		SH	9/23/22 11:45	
Turbidity, Field	16.73 NTU				Field Meter		SH	9/23/22 11:45	
Turbidity	14 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:17	9/26/22 10:23
Alkalinity as CaCO3	60.6 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 12:12	
Total Dissolved Solids	122 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	8.5 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.42 su	1.68			SM 4500-H+B		SH	9/23/22 11:45	
pH, Lab	6.92 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:45	9/26/22 16:08
Radium, Total	1.34 +/- 1.02 pCi/L		1	1.72	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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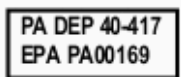
Report Date: 11/10/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-004
Date Sampled: 09/23/2022 Time Sampled: 11:45 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: CC-1D
Client Sample ID: CC-1D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22 20:45	
Specific Conductance, Field	234.5 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22 11:45	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22 21:19	
Calcium, Dissolved	26.2 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	26.2 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22 21:19	
Iron, Dissolved	0.0740 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	0.501 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Strontium, Dissolved	0.0920 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.100 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Hardness, Total as CaCO3	90.1 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22 21:19	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22 0:47	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22 20:45	0:00
Barium, Dissolved	0.0264 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Barium, Total	0.0319 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lithium, Dissolved	0.00147 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lithium, Total	0.00264 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Molybdenum, Total	0.00215 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22 0:47	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22 20:45	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22 0:47	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22 20:45	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/3/22 8:41	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22 11:24	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22 11:24	





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-004
Date Sampled:	09/23/2022	Time Sampled:	11:45
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	CC-1D	Sample Point ID:	CC-1D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	11.1 mg/L	0.0352	5	1.0	EPA 300.0		NS	9/27/22 16:38	
Fluoride	0.220 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/26/22 12:56	
Sulfate	28.1 mg/L	0.252	1	5.0	EPA 300.0		NS	9/26/22 12:56	
Radium 226	0.335 +/- 0.569 pCi/L		1	1.00	EPA 903.1		65-00282	10/8/22 13:07	0:00
Radium 228	1.60 +/- 0.681 pCi/L		1	1.13	EPA 904.0		65-00282	10/12/22 12:59	0:00
Dissolved oxygen	9.11 mg/L				Field Meter	N	SH	9/23/22 11:45	
ORP (ReDox)	157.7 mv				Field Meter	N	SH	9/23/22 11:45	
Temp, Field	15.0 C				Field Meter		SH	9/23/22 11:45	
Turbidity, Field	16.73 NTU				Field Meter		SH	9/23/22 11:45	
Turbidity	11 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:18	9/26/22 10:23
Alkalinity as CaCO3	59.6 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 12:22	
Total Dissolved Solids	123 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	8.0 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.42 su	1.68			SM 4500-H+B		SH	9/23/22 11:45	
pH, Lab	7.00 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:47	9/26/22 16:08
Radium, Total	1.94 +/- 1.25 pCi/L		1	2.13	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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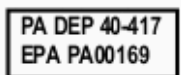
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-005
Date Sampled: 09/23/2022 Time Sampled: 12:38 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: CC-2
Client Sample ID: CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22	20:45
Specific Conductance, Field	234.6 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22	12:38
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22	21:07
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22	21:19
Calcium, Dissolved	27.6 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22	21:07
Calcium, Total	25.9 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22	21:19
Iron, Dissolved	0.0800 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Iron, Total	0.516 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Strontium, Dissolved	0.0960 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Strontium, Total	0.090 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Hardness, Total as CaCO3	89.0 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22	21:19
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22	0:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22	20:45
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22	0:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22	20:45
Barium, Dissolved	0.0281 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22	0:47
Barium, Total	0.0322 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22	20:45
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22	0:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22	20:45
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22	0:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lead, Total	0.00117 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lithium, Dissolved	0.00154 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lithium, Total	0.00239 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22	20:45
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22	0:47
Molybdenum, Total	0.00208 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22	20:45
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22	0:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22	20:45
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22	0:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22	20:45
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/3/22	8:41
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22	11:24
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/1/22	11:24





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-005
Date Sampled:	09/23/2022	Time Sampled:	12:38
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	CC-2	Sample Point ID:	CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	10.9 mg/L	0.0352	5	1.0	EPA 300.0		NS	9/27/22 16:52	
Fluoride	0.200 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/26/22 13:11	
Sulfate	28.0 mg/L	0.252	1	5.0	EPA 300.0		NS	9/26/22 13:11	
Radium 226	0.456 +/- 0.560 pCi/L		1	0.913	EPA 903.1		65-00282	10/8/22 13:07	0:00
Radium 228	0.993 +/- 0.595 pCi/L		1	1.12	EPA 904.0		65-00282	10/12/22 12:59	0:00
Dissolved oxygen	9.08 mg/L				Field Meter	N	SH	9/23/22 12:38	
ORP (ReDox)	159.9 mv				Field Meter	N	SH	9/23/22 12:38	
Temp, Field	15.2 C				Field Meter		SH	9/23/22 12:38	
Turbidity, Field	13.10 NTU				Field Meter		SH	9/23/22 12:38	
Turbidity	13 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:18	9/26/22 10:23
Alkalinity as CaCO3	60.8 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 12:32	
Total Dissolved Solids	117 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	8.2 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.40 su	1.68			SM 4500-H+B		SH	9/23/22 12:38	
pH, Lab	7.10 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:49	9/26/22 16:08
Radium, Total	1.45 +/- 1.16 pCi/L		1	2.03	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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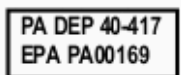
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-006
Date Sampled: 09/23/2022 Time Sampled: 13:15 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: CC-3
Client Sample ID: CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22 20:45	
Specific Conductance, Field	295.1 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22 13:15	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22 21:19	
Calcium, Dissolved	36.1 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	34.9 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22 21:19	
Iron, Dissolved	0.0790 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	0.568 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Strontium, Dissolved	0.126 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.124 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Hardness, Total as CaCO3	113 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22 21:19	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22 0:47	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22 20:45	0:00
Barium, Dissolved	0.0295 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Barium, Total	0.0342 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lithium, Dissolved	0.00350 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lithium, Total	0.00448 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Molybdenum, Dissolved	0.00171 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Molybdenum, Total	0.00226 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22 0:47	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22 20:45	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22 0:47	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22 20:45	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3,M1	NL	10/28/22 15:06	





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-006
Date Sampled:	09/23/2022	Time Sampled:	13:15
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	CC-3	Sample Point ID:	CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	12.2 mg/L	0.0352	5	1.0	EPA 300.0		NS	9/26/22 13:39	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/26/22 13:25	
Sulfate	48.3 mg/L	0.252	5	5.0	EPA 300.0		NS	9/26/22 13:39	
Radium 226	0.216 +/- 0.425 pCi/L		1	0.776	EPA 903.1		65-00282	10/8/22 13:07	0:00
Radium 228	0.674 +/- 0.568 pCi/L		1	1.15	EPA 904.0		65-00282	10/12/22 12:59	0:00
Dissolved oxygen	9.21 mg/L				Field Meter	N	SH	9/23/22 13:15	
ORP (ReDox)	159.1 mv				Field Meter	N	SH	9/23/22 13:15	
Temp, Field	15.9 C				Field Meter		SH	9/23/22 13:15	
Turbidity, Field	12.90 NTU				Field Meter		SH	9/23/22 13:15	
Turbidity	12 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:19	9/26/22 10:23
Alkalinity as CaCO3	66.8 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 12:41	
Total Dissolved Solids	160 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	8.6 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.44 su	1.68			SM 4500-H+B		SH	9/23/22 13:15	
pH, Lab	7.30 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:51	9/26/22 16:08
Radium, Total	0.890 +/- 0.993 pCi/L		1	1.93	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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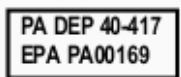
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-007
Date Sampled: 09/23/2022 Time Sampled: 14:26 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: CC-4
Client Sample ID: CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22 20:45	
Specific Conductance, Field	293.2 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22 14:26	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22 21:19	
Calcium, Dissolved	34.9 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	34.8 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22 21:19	
Iron, Dissolved	0.0870 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	0.417 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Strontium, Dissolved	0.122 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.134 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Hardness, Total as CaCO3	112 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22 21:19	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22 0:47	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22 20:45	0:00
Barium, Dissolved	0.0288 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Barium, Total	0.0328 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lithium, Dissolved	0.00337 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lithium, Total	0.00401 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Molybdenum, Dissolved	0.00121 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Molybdenum, Total	0.00239 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22 0:47	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22 20:45	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22 0:47	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22 20:45	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22 15:06	





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Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-007
Date Sampled:	09/23/2022	Time Sampled:	14:26
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	CC-4	Sample Point ID:	CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	12.3 mg/L	0.0352	5	1.0	EPA 300.0		NS	9/27/22 17:06	
Fluoride	0.200 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/26/22 13:53	
Sulfate	48.5 mg/L	0.252	5	5.0	EPA 300.0		NS	9/27/22 17:06	
Radium 226	-0.0824+/-0.485 pCi/L		1	1.08	EPA 903.1		65-00282	10/8/22 13:29	0:00
Radium 228	0.768 +/- 0.644 pCi/L		1	1.30	EPA 904.0		65-00282	10/12/22 12:59	0:00
Dissolved oxygen	9.14 mg/L				Field Meter	N	SH	9/23/22 14:26	
ORP (ReDox)	153.5 mv				Field Meter	N	SH	9/23/22 14:26	
Temp, Field	16.0 C				Field Meter		SH	9/23/22 14:26	
Turbidity, Field	9.64 NTU				Field Meter		SH	9/23/22 14:26	
Turbidity	8.4 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:19	9/26/22 10:23
Alkalinity as CaCO3	65.2 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 12:51	
Total Dissolved Solids	161 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.57 su	1.68			SM 4500-H+B		SH	9/23/22 14:26	
pH, Lab	7.44 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:53	9/26/22 16:08
Radium, Total	0.768 +/- 1.13 pCi/L		1	2.38	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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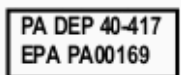
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-008
Date Sampled: 09/23/2022 Time Sampled: 9:55 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: Trib 18790
Client Sample ID: Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22	20:45
Specific Conductance, Field	499.8 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22	9:55
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22	21:07
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22	21:19
Calcium, Dissolved	73.4 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/11/22	21:07
Calcium, Total	69.8 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/13/22	21:19
Iron, Dissolved	0.0410 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Iron, Total	0.231 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Strontium, Dissolved	0.180 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Strontium, Total	0.178 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Hardness, Total as CaCO3	188 mg/L	0.210	20	1.5	EPA 200.7, Calc		JMR	10/13/22	21:19
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22	0:47
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22	20:45
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22	0:47
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22	20:45 0:00
Barium, Dissolved	0.0412 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22	0:47
Barium, Total	0.0451 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22	20:45
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22	0:47
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22	20:45
Chromium, Dissolved	0.00201 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22	0:47
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lithium, Dissolved	0.00216 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lithium, Total	0.00260 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22	20:45
Molybdenum, Dissolved	0.00155 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22	0:47
Molybdenum, Total	0.00176 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22	20:45
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22	0:47
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22	20:45 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22	0:47
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22	20:45 0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22	15:06





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-008
Date Sampled:	09/23/2022	Time Sampled:	9:55
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	Trib 18790	Sample Point ID:	Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	33.0 mg/L	0.0352	10	1.0	EPA 300.0		NS	9/27/22 13:07	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/27/22 12:53	
Sulfate	31.6 mg/L	0.252	1	5.0	EPA 300.0		NS	9/27/22 12:53	
Radium 226	0.0852+/-0.501 pCi/L		1	1.02	EPA 903.1		65-00282	10/8/22 13:29	0:00
Radium 228	0.971 +/- 0.525 pCi/L		1	0.957	EPA 904.0		65-00282	10/12/22 12:59	0:00
Dissolved oxygen	6.49 mg/L				Field Meter	N	SH	9/23/22 9:55	
ORP (ReDox)	161.1 mv				Field Meter	N	SH	9/23/22 9:55	
Temp, Field	12.2 C				Field Meter		SH	9/23/22 9:55	
Turbidity, Field	15.91 NTU				Field Meter		SH	9/23/22 9:55	
Turbidity	25 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:20	9/26/22 10:23
Alkalinity as CaCO3	174 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 13:01	
Total Dissolved Solids	274 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	18.2 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.36 su	1.68			SM 4500-H+B		SH	9/23/22 9:55	
pH, Lab	7.58 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:55	9/26/22 16:08
Radium, Total	1.06 +/- 1.03 pCi/L		1	1.98	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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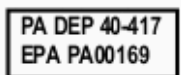
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-009
Date Sampled: 09/23/2022 Time Sampled: 9:55 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: Trib 18790D
Client Sample ID: Trib 18790D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22 20:45	
Specific Conductance, Field	499.8 uS/cm	5		5	EPA 120.1, FIELD		SH	9/23/22 9:55	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22 21:19	
Calcium, Dissolved	73.3 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	69.6 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/13/22 21:19	
Iron, Dissolved	0.0370 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	0.132 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Strontium, Dissolved	0.172 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.169 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Hardness, Total as CaCO3	195 mg/L	0.210	20	1.5	EPA 200.7, Calc		JMR	10/13/22 21:19	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22 0:47	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22 20:45	0:00
Barium, Dissolved	0.0406 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Barium, Total	0.0428 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lithium, Dissolved	0.00210 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lithium, Total	0.00262 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Molybdenum, Dissolved	0.00144 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Molybdenum, Total	0.00153 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22 0:47	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22 20:45	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22 0:47	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22 20:45	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22 15:06	





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-009
Date Sampled:	09/23/2022	Time Sampled:	9:55
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	Trib 18790D	Sample Point ID:	Trib 18790D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	33.1 mg/L	0.0352	10	1.0	EPA 300.0		NS	9/27/22 13:35	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/27/22 13:21	
Sulfate	31.6 mg/L	0.252	1	5.0	EPA 300.0		NS	9/27/22 13:21	
Radium 226	-0.155+/-0.481 pCi/L		1	1.09	EPA 903.1		65-00282	10/8/22 13:29	0:00
Radium 228	0.876 +/- 0.380 pCi/L		1	0.597	EPA 904.0		65-00282	10/12/22 13:00	0:00
Dissolved oxygen	6.49 mg/L				Field Meter	N	SH	9/23/22 9:55	
ORP (ReDox)	161.1 mv				Field Meter	N	SH	9/23/22 9:55	
Temp, Field	12.2 C				Field Meter		SH	9/23/22 9:55	
Turbidity, Field	15.91 NTU				Field Meter		SH	9/23/22 9:55	
Turbidity	14 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:20	9/26/22 10:23
Alkalinity as CaCO3	175 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 13:18	
Total Dissolved Solids	274 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Field	7.36 su	1.68			SM 4500-H+B		SH	9/23/22 9:55	
pH, Lab	7.50 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:57	9/26/22 16:08
Radium, Total	0.876 +/- 0.861 pCi/L		1	1.69	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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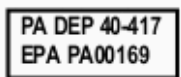
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-010
Date Sampled: 09/21/2022 Time Sampled: 14:24 Sampler: SH
Date Received: 09/21/2022 Sample Point ID: Trib 18787 (1)
Client Sample ID: Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/2/22 14:50	
Specific Conductance, Field	326.3 uS/cm	5		5	EPA 120.1, FIELD		SH	9/21/22 14:24	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	9/30/22 20:59	
Calcium, Dissolved	33.2 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	32.0 mg/L	0.0384	1	0.500	EPA 200.7		JMR	9/30/22 20:59	
Iron, Dissolved	0.352 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	2.01 mg/L	0.0122	1	0.020	EPA 200.7		JMR	9/30/22 20:59	
Strontium, Dissolved	0.105 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.107 mg/L	0.00245	1	0.020	EPA 200.7		JMR	9/30/22 20:59	
Hardness, Total as CaCO3	111 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	9/30/22 20:59	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Arsenic, Dissolved	0.00138 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Arsenic, Total	0.00224 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/2/22 14:50	0:00
Barium, Dissolved	0.0598 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Barium, Total	0.0670 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Molybdenum, Dissolved	0.00189 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Molybdenum, Total	0.00196 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/10/22 14:42	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/2/22 14:50	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/2/22 14:50	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22 15:06	





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-010
Date Sampled:	09/21/2022	Time Sampled:	14:24
Date Received:	09/21/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (1)	Sample Point ID:	Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	24.8 mg/L	0.0352	5	1.0	EPA 300.0		GW	9/22/22 15:38	
Fluoride	0.230 mg/L	0.0281	1	0.20	EPA 300.0		GW	9/22/22 15:24	
Sulfate	25.4 mg/L	0.252	1	5.0	EPA 300.0		GW	9/22/22 15:24	
Radium 226	0.0745+/-0.602 pCi/L		1	1.18	EPA 903.1		65-00282	10/8/22 13:29	0:00
Radium 228	0.215 +/- 0.489 pCi/L		1	1.09	EPA 904.0		65-00282	10/12/22 16:19	0:00
Dissolved oxygen	4.00 mg/L				Field Meter	N	SH	9/21/22 14:24	
ORP (ReDox)	144.5 mv				Field Meter	N	SH	9/21/22 14:24	
Temp, Field	22.4 C				Field Meter		SH	9/21/22 14:24	
Turbidity, Field	19.93 NTU				Field Meter		SH	9/21/22 14:24	
Turbidity	22 NTU		1	1.0	SM 2130 B		ACM	9/22/22 10:32	9/22/22 10:36
Alkalinity as CaCO3	84.4 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/26/22 13:44	
Total Dissolved Solids	191 mg/L	1.0	1	10	SM 2540 C		NR	9/23/22 9:53	
Total Suspended Solids	8.0 mg/L	2.0	1	5	SM 2540 D		NR	9/23/22 9:53	
pH, Field	6.87 su	1.68			SM 4500-H+B		SH	9/21/22 14:24	
pH, Lab	7.27 su	0.1	1		SM 4500-H+B	H1	JBB	9/22/22 14:47	9/22/22 14:57
Radium, Total	0.290 +/- 1.09 pCi/L		1	2.27	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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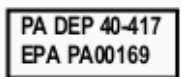
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-011
Date Sampled: 09/21/2022 Time Sampled: 13:28 Sampler: SH
Date Received: 09/21/2022 Sample Point ID: Trib 18787 (2)
Client Sample ID: Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/2/22 14:50	
Specific Conductance, Field	620.0 uS/cm	5		5	EPA 120.1, FIELD		SH	9/21/22 13:28	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	9/30/22 20:59	
Calcium, Dissolved	103 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	96.0 mg/L	0.0384	20	0.500	EPA 200.7		JMR	9/30/22 20:59	
Iron, Dissolved	0.318 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	1.30 mg/L	0.0122	1	0.020	EPA 200.7		JMR	9/30/22 20:59	
Strontium, Dissolved	0.299 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	0.299 mg/L	0.00245	1	0.020	EPA 200.7		JMR	9/30/22 20:59	
Hardness, Total as CaCO3	288 mg/L	0.210	20	1.5	EPA 200.7, Calc		JMR	9/30/22 20:59	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Arsenic, Total	0.00143 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/2/22 14:50	0:00
Barium, Dissolved	0.0704 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Barium, Total	0.0748 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Cobalt, Dissolved	0.00148 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Cobalt, Total	0.00153 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Lithium, Dissolved	0.00360 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Lithium, Total	0.00340 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Molybdenum, Dissolved	0.00467 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Molybdenum, Total	0.00366 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/2/22 14:50	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/10/22 14:42	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/2/22 14:50	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/10/22 14:42	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/2/22 14:50	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22 15:06	





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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-011
Date Sampled:	09/21/2022	Time Sampled:	13:28
Date Received:	09/21/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (2)	Sample Point ID:	Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	15.5 mg/L	0.0352	10	1.0	EPA 300.0		GW	9/22/22 17:45	
Fluoride	0.220 mg/L	0.0281	1	0.20	EPA 300.0		GW	9/22/22 15:52	
Sulfate	200 mg/L	0.252	10	5.0	EPA 300.0		GW	9/26/22 17:45	
Radium 226	0.0719+/-0.423 pCi/L		1	0.864	EPA 903.1		65-00282	10/8/22 13:07	0:00
Radium 228	0.714 +/- 0.572 pCi/L		1	1.13	EPA 904.0		65-00282	10/12/22 16:19	0:00
Dissolved oxygen	4.80 mg/L				Field Meter	N	SH	9/21/22 13:28	
ORP (ReDox)	101.1 mv				Field Meter	N	SH	9/21/22 13:28	
Temp, Field	18.0 C				Field Meter		SH	9/21/22 13:28	
Turbidity, Field	19.88 NTU				Field Meter		SH	9/21/22 13:28	
Turbidity	33.0 NTU		1	1.0	SM 2130 B		ACM	9/22/22 10:33	9/22/22 10:36
Alkalinity as CaCO3	186 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/26/22 13:55	
Total Dissolved Solids	423 mg/L	1.0	1	10	SM 2540 C		NR	9/23/22 9:53	
Total Suspended Solids	5.8 mg/L	2.0	1	5	SM 2540 D		NR	9/23/22 9:53	
pH, Field	6.79 su	1.68			SM 4500-H+B		SH	9/21/22 13:28	
pH, Lab	7.82 su	0.1	1		SM 4500-H+B	H1	JBB	9/22/22 14:49	9/22/22 14:57
Radium, Total	0.786 +/- 0.995 pCi/L		1	1.99	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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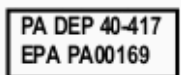
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-012
Date Sampled: 09/21/2022 Time Sampled: 12:48 Sampler: SH
Date Received: 09/21/2022 Sample Point ID: Trib 18787 (3)
Client Sample ID: Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/2/22	14:50
Specific Conductance, Field	1327.0 uS/cm	5		5	EPA 120.1, FIELD		SH	9/21/22	12:48
Boron, Dissolved	0.177 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22	21:07
Boron, Total	0.176 mg/L	0.0483	1	0.100	EPA 200.7		JMR	9/30/22	20:59
Calcium, Dissolved	262 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/11/22	21:07
Calcium, Total	244 mg/L	0.0384	20	0.500	EPA 200.7		JMR	9/30/22	20:59
Iron, Dissolved	0.039 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Iron, Total	0.447 mg/L	0.0122	1	0.020	EPA 200.7		JMR	9/30/22	20:59
Strontium, Dissolved	0.812 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Strontium, Total	0.782 mg/L	0.00245	1	0.020	EPA 200.7		JMR	9/30/22	20:59
Hardness, Total as CaCO3	706 mg/L	0.210	20	1.5	EPA 200.7, Calc		JMR	9/30/22	20:59
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22	12:12
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/2/22	14:50
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22	12:12
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/2/22	14:50
Barium, Dissolved	0.04426 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22	12:12
Barium, Total	0.0484 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/2/22	14:50
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22	12:12
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/2/22	14:50
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22	12:12
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/2/22	14:50
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22	12:12
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/2/22	14:50
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22	12:12
Cobalt, Total	0.00106 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/2/22	14:50
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22	12:12
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/2/22	14:50
Lithium, Dissolved	0.0385 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22	12:12
Lithium, Total	0.0333 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/2/22	14:50
Molybdenum, Dissolved	0.0139 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22	12:12
Molybdenum, Total	0.0139 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/2/22	14:50
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22	12:12
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/2/22	14:50
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/11/22	12:12
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/2/22	14:50
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22	15:06





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 11/10/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-012
Date Sampled:	09/21/2022	Time Sampled:	12:48
Date Received:	09/21/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (3)	Sample Point ID:	Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	27.7 mg/L	0.0352	10	1.0	EPA 300.0		NS	9/22/22 16:06	
Fluoride	0.200 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/22/22 15:52	
Sulfate	542 mg/L	0.252	20	5.0	EPA 300.0		NS	9/22/22 16:14	
Radium 226	0.304 +/- 0.367 pCi/L		1	0.559	EPA 903.1		65-00282	10/8/22 13:29	0:00
Radium 228	0.451 +/- 0.580 pCi/L		1	1.24	EPA 904.0		65-00282	10/12/22 16:19	0:00
Dissolved oxygen	8.74 mg/L				Field Meter	N	SH	9/21/22 12:48	
ORP (ReDox)	133.1 mv				Field Meter	N	SH	9/21/22 12:48	
Temp, Field	18.7 C				Field Meter		SH	9/21/22 12:48	
Turbidity, Field	6.04 NTU				Field Meter		SH	9/21/22 12:48	
Turbidity	6.20 NTU		1	1.0	SM 2130 B		ACM	9/22/22 10:33	9/22/22 10:36
Alkalinity as CaCO3	87.4 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/26/22 14:12	
Total Dissolved Solids	1000 mg/L	1.0	1	10	SM 2540 C		NR	9/23/22 9:53	
Total Suspended Solids	18.0 mg/L	2.0	1	5	SM 2540 D		NR	9/23/22 9:53	
pH, Field	7.62 su	1.68			SM 4500-H+B		SH	9/21/22 12:48	
pH, Lab	7.27 su	0.1	1		SM 4500-H+B	H1	JBB	9/22/22 14:51	9/22/22 14:57
Radium, Total	0.755 +/- 0.947 pCi/L		1	1.80	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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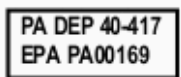
Report Date: 11/10/2022

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-013
Date Sampled: 09/21/2022 Time Sampled: 11:50 Sampler: SH
Date Received: 09/21/2022 Sample Point ID: Trib 18788
Client Sample ID: Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/5/22	0:47
Specific Conductance, Field	1520.0 uS/cm	5		5	EPA 120.1, FIELD		SH	9/21/22	11:50
Boron, Dissolved	0.226 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22	21:07
Boron, Total	0.225 mg/L	0.0483	1	0.100	EPA 200.7		JMR	9/30/22	20:59
Calcium, Dissolved	304 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/11/22	21:07
Calcium, Total	293 mg/L	0.0384	20	0.500	EPA 200.7	M4	JMR	9/30/22	20:59
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Iron, Total	0.120 mg/L	0.0122	1	0.020	EPA 200.7		JMR	9/30/22	20:59
Strontium, Dissolved	0.919 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22	21:07
Strontium, Total	0.903 mg/L	0.00245	1	0.020	EPA 200.7		JMR	9/30/22	20:59
Hardness, Total as CaCO3	861 mg/L	0.210	20	1.5	EPA 200.7, Calc		JMR	9/30/22	20:59
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22	12:12
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/5/22	0:47
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22	12:12
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22	0:47 0:00
Barium, Dissolved	0.0333 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22	12:12
Barium, Total	0.0349 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22	0:47
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22	12:12
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22	12:12
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22	0:47
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22	12:12
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22	0:47
Cobalt, Dissolved	0.00139 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22	12:12
Cobalt, Total	0.00144 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22	12:12
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22	0:47
Lithium, Dissolved	0.0341 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22	12:12
Lithium, Total	0.0383 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22	0:47
Molybdenum, Dissolved	0.0116 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22	12:12
Molybdenum, Total	0.0124 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22	0:47
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22	12:12
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22	0:47 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/11/22	12:12
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/5/22	0:47 0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22	15:06





Customer: Montour, LLC
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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-013
Date Sampled:	09/21/2022	Time Sampled:	11:50
Date Received:	09/21/2022	Sampler:	SH
Client Sample ID:	Trib 18788	Sample Point ID:	Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	20.2 mg/L	0.0352	5	1.0	EPA 300.0		GW	9/22/22 18:27	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		GW	9/22/22 18:13	
Sulfate	656 mg/L	0.252	20	5.0	EPA 300.0		GW	9/22/22 18:41	
Radium 226	0.872 +/- 0.685 pCi/L		1	0.952	EPA 903.1		65-00282	10/8/22 13:29	0:00
Radium 228	0.0424 +/- 0.559 pCi/L		1	1.29	EPA 904.0		65-00282	10/12/22 16:20	0:00
Dissolved oxygen	9.76 mg/L				Field Meter	N	SH	9/21/22 11:50	
ORP (ReDox)	89.1 mv				Field Meter	N	SH	9/21/22 11:50	
Temp, Field	18.2 C				Field Meter		SH	9/21/22 11:50	
Turbidity, Field	4.81 NTU				Field Meter		SH	9/21/22 11:50	
Turbidity	1.9 NTU		1	1.0	SM 2130 B		ACM	9/22/22 10:34	9/22/22 10:36
Alkalinity as CaCO3	214 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/26/22 14:22	
Total Dissolved Solids	1190 mg/L	1.0	1	10	SM 2540 C		NR	9/23/22 9:53	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	9/23/22 9:53	
pH, Field	7.48 su	1.68			SM 4500-H+B		SH	9/21/22 11:50	
pH, Lab	7.69 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 15:59	9/26/22 16:08
Radium, Total	0.914 +/- 1.24 pCi/L		1	2.24	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

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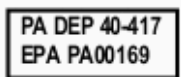
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-014
Date Sampled: 09/27/2022 Time Sampled: 9:45 Sampler: NL
Date Received: 09/27/2022 Sample Point ID: MO 3-5
Client Sample ID: MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22	20:45
Specific Conductance, Field	1623 uS/cm	5		5	EPA 120.1, FIELD		NL	9/27/22	9:45
Boron, Dissolved	0.260 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/20/22	0:23
Boron, Total	0.296 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22	21:19
Calcium, Dissolved	308 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/20/22	0:23
Calcium, Total	353 mg/L	0.0384	20	0.500	EPA 200.7		JMR	10/13/22	21:19
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/20/22	0:23
Iron, Total	1.73 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Strontium, Dissolved	0.877 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/20/22	0:23
Strontium, Total	1.02 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22	21:19
Hardness, Total as CaCO3	1010 mg/L	0.210	20	1.5	EPA 200.7, Calc		JMR	10/13/22	21:19
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22	20:45
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22	20:45
Barium, Dissolved	0.0234 mg/L	0.000227	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Barium, Total	0.0281 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22	20:45
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8	M2	KLM	10/19/22	0:50
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22	20:45
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22	20:45
Cobalt, Dissolved	0.00437 mg/L	0.000127	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Cobalt, Total	0.00580 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Lead, Total	0.00416 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22	20:45
Lithium, Dissolved	0.0181 mg/L	0.000789	1	0.001	EPA 200.8	M2	KLM	10/19/22	0:50
Lithium, Total	0.0241 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22	20:45
Molybdenum, Dissolved	0.00748 mg/L	0.000300	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Molybdenum, Total	0.00866 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22	20:45
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		KLM	10/19/22	0:50
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22	20:45
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		KLM	10/19/22	0:50
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	10/11/22	20:45
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22	15:06
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22	15:06





Customer: Montour, LLC
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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-014
Date Sampled:	09/27/2022	Time Sampled:	9:45
Date Received:	09/27/2022	Sampler:	NL
Client Sample ID:	MO 3-5	Sample Point ID:	MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	20.3 mg/L	0.0352	10	1.0	EPA 300.0		NS	9/28/22 12:42	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/28/22 12:28	
Sulfate	719 mg/L	0.252	50	5.0	EPA 300.0		NS	9/28/22 12:56	
Radium 226	-0.0803+/-0.472 pCi/L		1	1.05	EPA 903.1		65-00282	10/8/22 13:48	0:00
Radium 228	-0.0034+/-0.481 pCi/L		1	1.12	EPA 904.0		65-00282	10/12/22 16:20	0:00
Dissolved oxygen	8.43 mg/L				Field Meter	N	NL	9/27/22 9:45	
ORP (ReDox)	147 mv				Field Meter	N	NL	9/27/22 9:45	
Temp, Field	15.6 C				Field Meter		NL	9/27/22 9:45	
Turbidity, Field	4.66 NTU				Field Meter		NL	9/27/22 9:45	
Turbidity	21 NTU		1	1.0	SM 2130 B		ACM	9/28/22 11:18	9/28/22 11:21
Alkalinity as CaCO3	223 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/29/22 15:18	
Total Dissolved Solids	1320 mg/L	1.0	1	10	SM 2540 C		NR	9/28/22 9:30	
Total Suspended Solids	49.0 mg/L	2.0	1	5	SM 2540 D		NR	9/28/22 9:30	
pH, Field	6.86 su	1.68			SM 4500-H+B		NL	9/27/22 9:45	
pH, Lab	7.62 su	0.1	1		SM 4500-H+B	H1	JBB	9/30/22 15:46	9/30/22 15:50
Radium, Total	0.000 +/- 0.953 pCi/L		1	2.17	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

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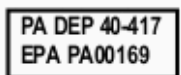
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2209-01054-015
Date Sampled: 09/23/2022 Time Sampled: 13:35 Sampler: SH
Date Received: 09/23/2022 Sample Point ID: SW FB
Client Sample ID: SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	10/11/22 20:45	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/11/22 21:07	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		JMR	10/13/22 21:19	
Calcium, Dissolved	<0.500 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/11/22 21:07	
Calcium, Total	<0.500 mg/L	0.0384	1	0.500	EPA 200.7		JMR	10/13/22 21:19	
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Iron, Total	<0.020 mg/L	0.0122	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Strontium, Dissolved	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/11/22 21:07	
Strontium, Total	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		JMR	10/13/22 21:19	
Hardness, Total as CaCO3	<1.5 mg/L	0.210	1	1.5	EPA 200.7, Calc		JMR	10/13/22 21:19	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8	IC3	NL	10/5/22 0:47	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	10/11/22 20:45	0:00
Barium, Dissolved	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Barium, Total	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/5/22 0:47	
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	10/11/22 20:45	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/5/22 0:47	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	10/11/22 20:45	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/5/22 0:47	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8	L2	NL	10/11/22 20:45	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	10/28/22 15:06	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7	H3	NL	10/28/22 15:06	
Chloride	<1.0 mg/L	0.0352	1	1.0	EPA 300.0		NS	9/27/22 14:17	





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 11/10/2022

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2209-01054-015
Date Sampled:	09/23/2022	Time Sampled:	13:35
Date Received:	09/23/2022	Sampler:	SH
Client Sample ID:	SW FB	Sample Point ID:	SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	9/27/22 14:17	
Sulfate	<5.0 mg/L	0.252	1	5.0	EPA 300.0		NS	9/27/22 14:17	
Radium 226	0.231 +/- 0.454 pCi/L		1	0.831	EPA 903.1		65-00282	10/8/22 13:48	0:00
Radium 228	-0.159+/-0.469 pCi/L		1	1.12	EPA 904.0		65-00282	10/12/22 16:20	0:00
Turbidity	<1.0 NTU		1	1.0	SM 2130 B	H3	ACM	9/26/22 10:21	9/26/22 10:23
Alkalinity as CaCO3	<20.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	9/28/22 13:35	
Total Dissolved Solids	<10 mg/L	1.0	1	10	SM 2540 C		NR	9/27/22 9:36	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	9/27/22 9:36	
pH, Lab	6.99 su	0.1	1		SM 4500-H+B	H1	JBB	9/26/22 16:03	9/26/22 16:08
Radium, Total	0.231 +/- 0.923 pCi/L		1	1.95	Total Radium Calculation		65-00282	10/14/22 17:46	0:00

These results relate only to the sample noted above.

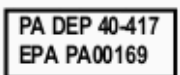
This certificate is not to be reproduced except in full, without the written approval of HawkMtn Labs.



Jeffrey Gittleman, Laboratory Director

65-00282 = Pace Analytical, PA

- A1 = Alkalinity is determined to a pH endpoint of 4.5 su.
- D1 = The duplicate RPD was outside the acceptance limits. Results are estimated.
- H1 = Sample was received after the expiration of the holding time.
- H3 = Sample was analyzed outside the required holding time. Results may be biased low.
- IC3 = ICV recovery was **below** the acceptance limits. Results may be biased low.
- L2 = The LCS recovery was below the acceptance limits. Results may be biased low.
- M1 = The MS recovery was above the acceptance limits. Result may be biased high
- M2 = The MS recovery was below the acceptance limits. Results are estimated.
- M4 = Due to sample dilution, matrix spike recovery was outside of the established control limits
- N = Hawk Mtn. Labs does not hold accreditation from the PA-DEP for the field of accreditation.



Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Transported on ice?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
COC intact and complete?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Correct containers?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Adequate samples?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Volatiles: headspace present?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Completed by:	<u>SH</u>
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** ECC-1
Sample 001: ECC-1

Printed On: 9/1/2022
Printed By: HP
Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank-HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>13.9</u>	C	<u>SH</u>
Turbidity, Field	WA-FTURB	<u>10.40</u>	NTU	<u>SH</u>
ORP (ReDox)	WA-ORP	<u>149.5</u>	mv	<u>SH</u>
Dissolved oxygen	WA-DO	<u>9.70</u>	mg/L	<u>SH</u>
pH, Field	WA-FPH	<u>7.63</u>	su	<u>SH</u>
Specific Conductance, Field	WA-SPEC.-F	<u>235.6</u>	uS/cm	<u>SH</u>
Temp Upon Receipt	QC-TEMPREC	<u>3.9</u>	C	<u>SH</u>
pH meter ID	QC-PHMETER	<u>YSI088772</u>		<u>SH</u>

Sampling Comments:

Bottles Made By: SH Bottles Checked By: MM Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:

Flow Required - Y / <input checked="" type="checkbox"/> N	SWL Required - Y / <input checked="" type="checkbox"/> N	Date:	Time:
Sampled By:	<u>[Signature]</u>	<u>9-23-22</u>	<u>9:17</u>
Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
Received By:	<u>-</u>	<u>-</u>	<u>-</u>
Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
Received at Lab By:	<u>[Signature]</u>	<u>9-23-22</u>	<u>16:25</u>
Logged in By:	<u>[Signature]</u>	<u>9/26/22</u>	<u>0746</u>

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** MCC-1
Sample 002: MCC-1

Printed On: 9/1/2022
 Printed By: AP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

				Tech
Temp, Field	WA-FT	15.8	C	SH
Turbidity, Field	WA-FTURB	11.12	NTU	SH
ORP (ReDox)	WA-ORP	199.1	mv	SH
Dissolved oxygen	WA-DO	8.92	mg/L	SH
pH, Field	WA-FPH	7.33	su	SH
Specific Conductance, Field	WA-SPEC.-F	228.3	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.3	C	SH
pH meter ID	QC-PHMETER	751055772		SH

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments:

Bottles Made By: SH Bottles Checked By: AK Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:

	Flow Required - Y / N	SWL Required - Y / N	Date:	Time:
Sampled By:			9-23-22	10:51
Relinquished By:			-	-
Received By:			-	-
Relinquished By:			-	-
Received at Lab By:			9-23-22	16:25
Logged in By:			9/26/22	0746

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

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 201 W. Clay Ave., Hazle Township, PA 18202
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PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** CC-1
Sample 003: CC-1

Printed On: 9/1/2022
Printed By: AP
Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field-Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	15.0	C	SH
Turbidity, Field	WA-FTURB	16.73	NTU	SH
ORP (ReDox)	WA-ORP	157.7	mv	SH
Dissolved oxygen	WA-DO	9.11	mg/L	SH
pH, Field	WA-FPH	7.42	su	SH
Specific Conductance, Field	WA-SPEC.-F	234.5	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	6.4	C	SH
pH meter ID	QC-PHMETER	752055772		SH

Sampling Comments:

Bottles Made By: SH **Bottles Checked By:** MJK **Composite Sample: Start Time/Date:** **End Time/Date:**

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
			9-23-22	11:45
			-	-
			-	-
			-	-
			9-23-22	16:25
			9/26/22	0746

Customer: Montour, LLC
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HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	SH	/	N
Transported on ice?	SH	/	N
COC intact and complete?	SH	/	N
Correct containers?	SH	/	N
Adequate samples?	SH	/	N
Volatiles: headspace present?	SH	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	N	SH

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** CC-1D
Sample 004: CC-1D

Printed On: 9/1/2022
 Printed By: AP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field-Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	19.0	C	SH
Turbidity, Field	WA-FTURB	16.73	NTU	SH
ORP (ReDox)	WA-ORP	157.7	mv	SH
Dissolved oxygen	WA-DO	9.11	mg/L	SH
pH, Field	WA-FPH	7.42	su	SH
Specific Conductance, Field	WA-SPEC.-F	234.5	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	3.5	C	SH
pH meter ID	QC-PHMETER	YSI055772		SH

Sampling Comments:

Bottles Made By: SH Bottles Checked By: MR Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
			9-23-22	11:45
			-	-
			-	-
			-	-
			9-23-22	16:25
			9/26/22	0746

Customer: Montour, LLC
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 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	(X) / N
Transported on ice?	(X) / N
COC intact and complete?	(X) / N
Correct containers?	(X) / N
Adequate samples?	(X) / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	(X) / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** CC-2
Sample 005: CC-2

Printed On: 9/1/2022
 Printed By: AP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	15.2	C	SH
Turbidity, Field	WA-FTURB	13.10	NTU	SH
ORP (ReDox)	WA-ORP	159.9	mv	SH
Dissolved oxygen	WA-DO	9.09	mg/L	SH
pH, Field	WA-FPH	7.40	su	SH
Specific Conductance, Field	WA-SPEC.-F	234.6	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	3.5	C	SH
pH meter ID	QC-PHMETER	YSI055772		SH

Sampling Comments:

Bottles Made By: SH Bottles Checked By: man Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / N	SWL Required - Y / N	Date:	Time:
			9-27-22	12:38
			-	-
			-	-
			-	-
			9-23-22	16:25
			9/26/22	0746

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** CC-3
Sample 006: CC-3

Printed On: 9/1/2022
Printed By: SH
Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	15.9	C	SH
Turbidity, Field	WA-FTURB	12.90	NTU	SH
ORP (ReDox)	WA-ORP	159.1	mv	SH
Dissolved oxygen	WA-DO	9.21	mg/L	SH
pH, Field	WA-FPH	7.44	su	SH
Specific Conductance, Field	WA-SPEC.-F	295.1	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	4.0	C	SH
pH meter ID	QC-PHMETER	Y51P5577A		SH

Sampling Comments:

Bottles Made By: SH **Bottles Checked By:** MVR **Composite Sample: Start Time/Date:** **End Time/Date:**

NOTES:

	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
Sampled By:			9-23-22	13:15
Relinquished By:			-	-
Received By:			-	-
Relinquished By:			-	-
Received at Lab By:			9-23-22	16:25
Logged in By:			9/26/22	0746

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

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 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> / N
Transported on ice?	<input checked="" type="checkbox"/> / N
COC intact and complete?	<input checked="" type="checkbox"/> / N
Correct containers?	<input checked="" type="checkbox"/> / N
Adequate samples?	<input checked="" type="checkbox"/> / N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / N
Completed by:	<u>SH</u>
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y / N <u>SH</u>

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** CC-4
Sample 007: CC-4

Printed On: 9/1/2022
 Printed By: ALP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	16.0	C	SH
Turbidity, Field	WA-FTURB	9.64	NTU	SH
ORP (ReDox)	WA-ORP	153.5	mv	SH
Dissolved oxygen	WA-DO	9.14	mg/L	SH
pH, Field	WA-FPH	7.57	su	SH
Specific Conductance, Field	WA-SPEC.-F	293.2	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	5.0	C	SH
pH meter ID	QC-PHMETER	755055772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** mon **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
				9-23-22
	Sampled By:	<u>SH</u>		
	Relinquished By:	-		
	Received By:	-		
	Relinquished By:	-		
	Received at Lab By:	<u>SH</u>	9-23-22	16:25
	Logged in By:	<u>Quinn</u>	9/26/22	0746

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@taleneenergy.com

Samples Intact?	<input checked="" type="checkbox"/>	N
Transported on ice?	<input checked="" type="checkbox"/>	N
COC intact and complete?	<input checked="" type="checkbox"/>	N
Correct containers?	<input checked="" type="checkbox"/>	N
Adequate samples?	<input checked="" type="checkbox"/>	N
Volatiles: headspace present?	<input checked="" type="checkbox"/>	N
Completed by:	SH	
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/>	N

Chain of Custody

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** Trib 18790
Sample 008: Trib 18790

Printed On: 9/1/2022
 Printed By: AD
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	12.2	C	SH
Turbidity, Field	WA-FTURB	15.91	NTU	SH
ORP (ReDox)	WA-ORP	161.1	mv	SH
Dissolved oxygen	WA-DO	6.49	mg/L	SH
pH, Field	WA-FPH	7.36	su	SH
Specific Conductance, Field	WA-SPEC.-F	499.8	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	2.2	C	SH
pH meter ID	QC-PHMETER	451055772		SH

Sampling Comments:

Bottles Made By: SH Bottles Checked By: mpk Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>SH</u>	9-23-22	9:55
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>SH</u>	9-23-22	16:25
	Logged in By:	<u>Quayle</u>	9/23/22	0746

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	/	N
Transported on ice?	/	N
COC intact and complete?	/	N
Correct containers?	/	N
Adequate samples?	/	N
Volatiles: headspace present?	X	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** Trib 18790D
Sample 009: Trib 18790D

Printed On: 9/1/2022
Printed By: AP
Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	12.2	C	SH
Turbidity, Field	WA-FTURB	15.91	NTU	SH
ORP (ReDox)	WA-ORP	161.1	mv	SH
Dissolved oxygen	WA-DO	6.49	mg/L	SH
pH, Field	WA-FPH	7.36	su	SH
Specific Conductance, Field	WA-SPEC.-F	499.9	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	3.5	C	SH
pH meter ID	QC-PHMETER	Y1108772		SH

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** M... **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	9-23-22	9:55
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received By:	<u>-</u>	<u>-</u>	<u>-</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received at Lab By:	<u>[Signature]</u>	9-23-22	16:25
Logged in By:	<u>[Signature]</u>	9/23/22	0746	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	/	N
Transported on ice?	/	N
COC intact and complete?	/	N
Correct containers?	/	N
Adequate samples?	/	N
Volatiles: headspace present?	/	N
Completed by:	<i>SH</i>	
Samples/COC/Analysis agree?	(Y)	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** Trib 18787 (1)
Sample 010: Trib 18787 (1)

Printed On: 9/1/2022
 Printed By: *SH*
 Approved By: *SH*

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	22.4	C	SH
Turbidity, Field	WA-FTURB	19.93	NTU	SH
ORP (ReDox)	WA-ORP	144.5	mv	SH
Dissolved oxygen	WA-DO	4.00	mg/L	SH
pH, Field	WA-FPH	6.87	su	SH
Specific Conductance, Field	WA-SPEC.-F	326.3	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	3.0	C	SH
pH meter ID	QC-PHMETER	YSI088772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments:

Bottles Made By: *SH* Bottles Checked By: *MPK* Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / N	SWL Required Y/N	Date:	Time:
				9-21-22
	Sampled By:	<i>SH</i>		
	Relinquished By:	-		
	Received By:	-		
	Relinquished By:	-		
	Received at Lab By:	<i>SH</i>	9-21-22	16:00
	Logged in By:	<i>Quandt</i>	9/21/22	16:16

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	/	N
Transported on ice?	/	N
COC intact and complete?	/	N
Correct containers?	/	N
Adequate samples?	/	N
Volatiles: headspace present?	Y	N
Completed by:	[Signature]	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** Trib 18787 (2)
Sample 011: Trib 18787 (2)

Printed On: 9/1/2022
Printed By: [Signature]
Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	18.0	C	SH
Turbidity, Field	WA-FTURB	19.88	NTU	SH
ORP (ReDox)	WA-ORP	101.1	mv	SH
Dissolved oxygen	WA-DO	4.80	mg/L	SH
pH, Field	WA-FPH	6.79	su	SH
Specific Conductance, Field	WA-SPEC.-F	620.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	1.7	C	SH
pH meter ID	QC-PHMETER	75205772		SH

Sampling Comments:

Bottles Made By: SH **Bottles Checked By:** [Signature] **Composite Sample: Start Time/Date:** **End Time/Date:**

NOTES:	Flow Required - Y / (N)	SWL Required - Y / (N)	Date:	Time:
	Sampled By:	[Signature]	9-21-22	13:28
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	[Signature]	9-21-22	16:00
Logged in By:	[Signature]	9/21/22	16:16	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	[Signature]		
Samples/COC/Analysis agree?	Y	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** Trib 18787 (3)
Sample 012: Trib 18787 (3)

Printed On: 9/1/2022
Printed By: [Signature]
Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	18.7	C	SH
Turbidity, Field	WA-FTURB	6.04	NTU	SH
ORP (ReDox)	WA-ORP	133.1	mv	SH
Dissolved oxygen	WA-DO	8.74	mg/L	SH
pH, Field	WA-FPH	7.62	su	SH
Specific Conductance, Field	WA-SPEC.-F	1327.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	1.3	C	SH
pH meter ID	QC-PHMETER	45E055772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- Amber Glass 250mL Field Blank HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** [Signature] **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / (N)	SWL Required - Y / (N)	Date:	Time:
	Sampled By:	[Signature]	9-21-22	12:48
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	[Signature]	9-21-22	16:00
Logged in By:	[Signature]	9/21/22	1616	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples intact?	/	N
Transported on ice?	/	N
COC intact and complete?	/	N
Correct containers?	/	N
Adequate samples?	/	N
Volatiles: headspace present?	X	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** Trib 18788
Sample 013: Trib 18788

Printed On: 9/1/2022
 Printed By: ALP
 Approved By: SH

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	18.2	C	SH
Turbidity, Field	WA-FTURB	4.81	NTU	SH
ORP (ReDox)	WA-ORP	89.1	mv	SH
Dissolved oxygen	WA-DO	9.76	mg/L	SH
pH, Field	WA-FPH	7.48	su	SH
Specific Conductance, Field	WA-SPEC.-F	1520.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	1.5	C	SH
pH meter ID	QC-PHMETER	YS205772		SH

- Plastic 250mL ALK Unpreserved
- Amber Glass 250mL HCl
- ~~Amber Glass 250mL Field Blank HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments:
 Bottles Made By: SH Bottles Checked By: mmk Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
			9-21-22	11:50
			-	-
			-	-
			-	-
			9-21-21	16:00
			9/21/22	1616

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Transported on ice?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
COC intact and complete?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Correct containers?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Adequate samples?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / <input checked="" type="checkbox"/> N
Completed by:	<u>[Signature]</u>
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <u>[Signature]</u>

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 **Sample ID:** MO 3-5
Sample 014: MO 3-5

Printed On: 9/1/2022
 Printed By: [Signature]
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>15.6</u>	C	<u>[Signature]</u>
Turbidity, Field	WA-FTURB	<u>4.66</u>	NTU	<u>[Signature]</u>
ORP (ReDox)	WA-ORP	<u>147</u>	mv	<u>[Signature]</u>
Dissolved oxygen	WA-DO	<u>8.43</u>	mg/L	<u>[Signature]</u>
pH, Field	WA-FPH	<u>6.86</u>	su	<u>[Signature]</u>
Specific Conductance, Field	WA-SPEC.-F	<u>1623</u>	uS/cm	<u>[Signature]</u>
Temp Upon Receipt	QC-TEMPREC	<u>5.4</u>	C	<u>[Signature]</u>
pH meter ID	QC-PHMETER	<u>51771</u>		<u>[Signature]</u>

Sampling Comments:

Bottles Made By: SH Bottles Checked By: [Signature] Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:

Flow Required - Y / N
 SWL Required - Y / N
 Date: 9/27/22 Time: 0945
 Sampled By: [Signature]
 Relinquished By: _____
 Received By: _____
 Relinquished By: _____
 Received at Lab By: [Signature] 9/27/22 1449
 Logged in By: [Signature] 9/27/22 1604

Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	/	N
Transported on ice?	Y	/	N
COC intact and complete?	Y	/	N
Correct containers?	Y	/	N
Adequate samples?	Y	/	N
Volatiles: headspace present?	Y	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	Y	N	Y

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2209-01054 Sample ID: SW FB
Sample 015: SW FB

Printed On: 9/1/2022
Printed By: ADP
Approved By: SH

Matrix: Non Potable Water

Pick up date:

Temp Upon Receipt QC-TEMPREC 4.5 C Tech SH

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - Amber Glass 250mL HCl
 - Amber Glass 250mL Field Blank HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

Sampling Comments:

Bottles Made By: SH Bottles Checked By: MLK Composite Sample: Start Time/Date: End Time/Date:

NOTES:

	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
Sampled By:	Y	Y	9-23-22	13:35
Relinquished By:	-	-	-	-
Received By:	-	-	-	-
Relinquished By:	-	-	-	-
Received at Lab By:	Y	Y	9-23-22	16:25
Logged in By:	Y	Y	9/26/22	0746

October 14, 2022

Ms. Amanda Paranac
HAWKMTN LABS INC
201 West Clay Avenue
Hazle Twp, PA 18202

RE: Project: 2209-1054
Pace Project No.: 30525886

Dear Ms. Paranac:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2022. 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 - Greensburg

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

Sincerely,



Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
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: 2209-1054
Pace Project No.: 30525886

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 #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2209-1054

Pace Project No.: 30525886

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30525886001	2209-1054-1	Water	09/23/22 09:17	09/28/22 22:45
30525886002	2209-1054-2	Water	09/23/22 10:51	09/28/22 22:45
30525886003	2209-1054-3	Water	09/23/22 11:45	09/28/22 22:45
30525886004	2209-1054-4	Water	09/23/22 11:45	09/28/22 22:45
30525886005	2209-1054-5	Water	09/23/22 12:38	09/28/22 22:45
30525886006	2209-1054-6	Water	09/23/22 13:15	09/28/22 22:45
30525886007	2209-1054-7	Water	09/23/22 14:26	09/28/22 22:45
30525886008	2209-1054-8	Water	09/23/22 09:55	09/28/22 22:45
30525886009	2209-1054-9	Water	09/23/22 09:55	09/28/22 22:45
30525886010	2209-1054-10	Water	09/21/22 14:24	09/28/22 22:45
30525886011	2209-1054-11	Water	09/21/22 13:28	09/28/22 22:45
30525886012	2209-1054-12	Water	09/21/22 12:48	09/28/22 22:45
30525886013	2209-1054-13	Water	09/21/22 11:50	09/28/22 22:45
30525886014	2209-1054-14	Water	09/27/22 09:45	09/28/22 22:45
30525886015	2209-1054-15	Water	09/23/22 13:35	09/28/22 22:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2209-1054
Pace Project No.: 30525886

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30525886001	2209-1054-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886002	2209-1054-2	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886003	2209-1054-3	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886004	2209-1054-4	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886005	2209-1054-5	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886006	2209-1054-6	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886007	2209-1054-7	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886008	2209-1054-8	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886009	2209-1054-9	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886010	2209-1054-10	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886011	2209-1054-11	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886012	2209-1054-12	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30525886013	2209-1054-13	EPA 903.1	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2209-1054
Pace Project No.: 30525886

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30525886014	2209-1054-14	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
30525886015	2209-1054-15	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: 2209-1054
Pace Project No.: 30525886

Method: EPA 903.1
Description: 903.1 Radium 226
Client: HAWKMTN Labs. Inc.
Date: October 14, 2022

General Information:

15 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2209-1054
Pace Project No.: 30525886

Method: EPA 904.0
Description: 904.0 Radium 228
Client: HAWKMTN Labs. Inc.
Date: October 14, 2022

General Information:

15 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2209-1054

Pace Project No.: 30525886

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: HAWKMTN Labs. Inc.

Date: October 14, 2022

General Information:

15 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-1 **Lab ID: 30525886001** Collected: 09/23/22 09:17 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.296 ± 0.504 (1.17) C:NA T:85%	pCi/L	10/08/22 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.363 ± 0.478 (1.02) C:72% T:71%	pCi/L	10/12/22 12:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.363 ± 0.982 (2.19)	pCi/L	10/14/22 17:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-2 **Lab ID: 30525886002** Collected: 09/23/22 10:51 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.53 ± 0.787 (0.826) C:NA T:83%	pCi/L	10/08/22 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.24 ± 0.784 (1.11) C:70% T:61%	pCi/L	10/12/22 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.77 ± 1.57 (1.94)	pCi/L	10/14/22 17:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-3 **Lab ID: 30525886003** Collected: 09/23/22 11:45 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.455 ± 0.517 (0.816) C:NA T:86%	pCi/L	10/08/22 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.885 ± 0.499 (0.899) C:73% T:70%	pCi/L	10/12/22 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.34 ± 1.02 (1.72)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-4 **Lab ID: 30525886004** Collected: 09/23/22 11:45 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.335 ± 0.569 (1.00) C:NA T:84%	pCi/L	10/08/22 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.60 ± 0.681 (1.13) C:75% T:64%	pCi/L	10/12/22 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.94 ± 1.25 (2.13)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-5 **Lab ID: 30525886005** Collected: 09/23/22 12:38 Received: 09/28/22 22:45 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.456 ± 0.560 (0.913) C:NA T:85%	pCi/L	10/08/22 13:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.993 ± 0.595 (1.12) C:75% T:63%	pCi/L	10/12/22 12:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.45 ± 1.16 (2.03)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-6 **Lab ID: 30525886006** Collected: 09/23/22 13:15 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.216 ± 0.425 (0.776) C:NA T:89%	pCi/L	10/08/22 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.674 ± 0.568 (1.15) C:76% T:60%	pCi/L	10/12/22 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.890 ± 0.993 (1.93)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-7 **Lab ID: 30525886007** Collected: 09/23/22 14:26 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0824 ± 0.485 (1.08) C:NA T:82%	pCi/L	10/08/22 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.768 ± 0.644 (1.30) C:74% T:57%	pCi/L	10/12/22 12:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.768 ± 1.13 (2.38)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-8 **Lab ID: 30525886008** Collected: 09/23/22 09:55 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0852 ± 0.501 (1.02) C:NA T:82%	pCi/L	10/08/22 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.971 ± 0.525 (0.957) C:77% T:76%	pCi/L	10/12/22 12:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.06 ± 1.03 (1.98)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-9 **Lab ID: 30525886009** Collected: 09/23/22 09:55 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.155 ± 0.481 (1.09) C:NA T:84%	pCi/L	10/08/22 13:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.876 ± 0.380 (0.597) C:75% T:87%	pCi/L	10/12/22 13:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.876 ± 0.861 (1.69)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-10 **Lab ID: 30525886010** Collected: 09/21/22 14:24 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0745 ± 0.602 (1.18) C:NA T:91%	pCi/L	10/08/22 13:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.215 ± 0.489 (1.09) C:77% T:83%	pCi/L	10/12/22 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.290 ± 1.09 (2.27)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-11 **Lab ID: 30525886011** Collected: 09/21/22 13:28 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0719 ± 0.423 (0.864) C:NA T:92%	pCi/L	10/08/22 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.714 ± 0.572 (1.13) C:78% T:76%	pCi/L	10/12/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.786 ± 0.995 (1.99)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-12 **Lab ID: 30525886012** Collected: 09/21/22 12:48 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.304 ± 0.367 (0.559) C:NA T:85%	pCi/L	10/08/22 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.451 ± 0.580 (1.24) C:76% T:85%	pCi/L	10/12/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.755 ± 0.947 (1.80)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-13 **Lab ID: 30525886013** Collected: 09/21/22 11:50 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.872 ± 0.685 (0.952) C:NA T:85%	pCi/L	10/08/22 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0424 ± 0.559 (1.29) C:80% T:77%	pCi/L	10/12/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.914 ± 1.24 (2.24)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-14 **Lab ID: 30525886014** Collected: 09/27/22 09:45 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0803 ± 0.472 (1.05) C:NA T:84%	pCi/L	10/08/22 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.00343 ± 0.481 (1.12) C:78% T:86%	pCi/L	10/12/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.953 (2.17)	pCi/L	10/14/22 17:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

Sample: 2209-1054-15 **Lab ID: 30525886015** Collected: 09/23/22 13:35 Received: 09/28/22 22:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • no dates/times on bottles

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.231 ± 0.454 (0.831) C:NA T:92%	pCi/L	10/08/22 13:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	-0.159 ± 0.469 (1.12) C:80% T:89%	pCi/L	10/12/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.231 ± 0.923 (1.95)	pCi/L	10/14/22 17:46	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

QC Batch: 536549

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: 30525886001, 30525886002, 30525886003, 30525886004, 30525886005, 30525886006, 30525886007, 30525886008, 30525886009, 30525886010, 30525886011, 30525886012, 30525886013, 30525886014, 30525886015

METHOD BLANK: 2603487

Matrix: Water

Associated Lab Samples: 30525886001, 30525886002, 30525886003, 30525886004, 30525886005, 30525886006, 30525886007, 30525886008, 30525886009, 30525886010, 30525886011, 30525886012, 30525886013, 30525886014, 30525886015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.316 (0.642) C:NA T:76%	pCi/L	10/08/22 13:07	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2209-1054

Pace Project No.: 30525886

QC Batch: 536550

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: 30525886001, 30525886002, 30525886003, 30525886004, 30525886005, 30525886006, 30525886007, 30525886008, 30525886009, 30525886010, 30525886011, 30525886012, 30525886013, 30525886014, 30525886015

METHOD BLANK: 2603488

Matrix: Water

Associated Lab Samples: 30525886001, 30525886002, 30525886003, 30525886004, 30525886005, 30525886006, 30525886007, 30525886008, 30525886009, 30525886010, 30525886011, 30525886012, 30525886013, 30525886014, 30525886015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.771 ± 0.392 (0.675) C:75% T:88%	pCi/L	10/12/22 13:00	

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: 2209-1054
Pace Project No.: 30525886

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

REPORT OF LABORATORY ANALYSIS

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 www.hawkmtnlabs.com

CHAIN OF CUSTODY SAMPLE SUBMISSION RECORD

DIRECTIONS: Ink only; Complete legibly; Gray areas are for lab use only; Incomplete, damaged, or illegible COC will delay your sample(s)

Customer: **HAWK MTN LABS**

Report to: **TO: PAE-PA**

Address: _____
 City: _____ State: _____ Zip Code: _____
 Email: _____ Phone: _____
 Fax: _____

Client ID: _____
 Thermometer ID: _____
 Completed by: _____

Turn Around Time:
 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 *surcharge applies

Date Delivery:
 Fax
 Email
 Web
 Mail

Container Type: **PL**
 Container Size: **1L**
 Preservative: **HNO3**

Matrix:
 SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SCM = Solid/Chemical Waste
 OT = Other

Bacterial Samples Accepted:
 Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

ANALYSES / METHOD REQUESTED

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	Q-COMPOSITE	Q-GRAB	DATE SAMPLED	TIME SAMPLED	MATRIX
	2209-1054-1	G	G	9/23/22	0917	NPW
	2209-1054-2	G	G	9/23/22	1051	NPW
	2209-1054-3	G	G	9/23/22	1145	NPW
	2209-1054-4	G	G	9/23/22	1145	NPW
	2209-1054-5	G	G	9/23/22	1238	NPW
	2209-1054-6	G	G	9/23/22	1315	NPW

TEMPERATURE (°C)
 UPON RECEIPT

Enter Number of Containers Per Analysis

1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1

WO#: 30525886



SAMPLED BY (PRINT): **HML** RECEIVED BY (SIGN): **JAC**
 RELINQUISHED BY (SIGN): **[Signature]** RECEIVED AT LAB: **SWB**
 LOGGED IN BY (SIGN): **[Signature]** COC REVIEWED: **GM/B PACE**

Are these samples for permit reporting purposes? Yes No
 If Yes, which agency? _____

FHA _____
 NPDES _____
 PWS # _____
 Landfill, Water _____
 Landfill, Solid Waste _____
 Department of Health _____
 Underground Storage Tank _____
 Oil and Gas _____
 Bureau of Mining _____
 Other _____

DEP Drinking Water Only
 PWSID #: _____
 Entry Point: _____
 Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Initial Follow-Up

Received From Amount: \$ _____
 Paid by: Cash _____
 Credit Card _____
 Check _____

Received From Amount: \$ _____
 HML _____
 Walk in _____
 Courier _____
 FED EX _____
 UPS _____
 USPS _____

Samples intact? Y/N _____
 COC intact and complete? Y/N _____
 Correct Containers? Y/N _____
 Adequate Samples? Y/N _____
 Volatiles: Headspace Present? Y/N _____
 Correct Preserve Y/N _____
 Completed by: _____

QSP-008-F-03A REV 009
 9/28/22 19:35
 KOS WRT 9/28/22 22:45
 PMP 9/28/22 22:45

HAWK MOUNTAIN LABS INC
 201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkmtlabs.com

**CHAIN OF CUSTODY
 SAMPLE SUBMISSION RECORD**

DIRECTIONS: Ink only; Complete legibly; Gray areas are for lab use only; Incomplete, damaged, or illegible COC will delay your sample(s)

Customer: HAWK MTN LABS Report To: TO: PAE-PA
 Address: _____ Invoice To: _____
 City: _____ State: _____ Zip Code: _____ PO #: _____
 Phone: _____ Fax: _____
 Email: _____

Container Size: 40 mL 500 mL
 100 mL 1 Liter
 250 mL 1/2 gal
Container Type: AG = Amber Glass
 CG = Clear Glass
 PL = Plastic

Matrix: SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SCM = Solid/Chemical Waste
 OT = Other

Comments: SAMPLES FROM PA

Bacterial Samples Accepted: Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	DATE SAMPLED	TIME SAMPLED	MATRIX
	2209-1054-7	9/23/22	1426	NPW
	2209-1054-8	9/23/22	0955	NPW
	2209-1054-9	9/23/22	0955	NPW
	2209-1054-10	9/21/22	1424	NPW
	2209-1054-11	9/21/22	1328	NPW
	2209-1054-12	9/21/22	1248	NPW

Container Type PL → **Container Size** IL → **Preservative** HNO₃ →

ANALYSES / METHOD REQUESTED

RADIIUM 226	RADIIUM 228	TOTAL RADIIUM	CALCULATED
-------------	-------------	---------------	------------

Enter Number of Containers Per Analysis

1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1

TEMPERATURE (°C)

Turn Around Time: 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 Other: _____
 *surcharge applies

DATA DELIVERY: Fax Email Web Mail

SAMPLED BY (SIGN): HML **RECEIVED BY:** TRC
RECEIVED AT LAB: SARBER **COC REVIEWED:** GMBS PAGE

DATE 9/23/22 **TIME** 0955
 9/23/22 0955
 9/21/22 1424
 9/21/22 1328
 9/21/22 1248

W0#: 30525886
PM: NMY **Due Date: 10/20/22**
CLIENT: HAWK

Are these samples for permit reporting purposes? Yes ___ No ___
 If Yes, which agency?
 FMA ___ NPDES ___ PWS # ___
 Landfill, Water ___
 Landfill, Solid Waste ___
 Department of Health ___
 Underground Storage Tank ___
 Oil and Gas ___
 Bureau of Mining ___
 Other ___

DEP Drinking Water ONLY
 PWSID #: _____
 Entry Point: _____ Location: _____
 Period: Annual Semi-Annual Quarterly Monthly
 Type: Check Distribution Start Up Special Follow Up
 Raw Plant Initial

Received From/Amount: \$ _____
 HML Walk In
 Courier
 FED EX
 UPS
 USPS

Received on ice? Y/N
 Samples intact? Y/N
 COC intact and complete? Y/N
 Correct Containers? Y/N
 Adequate Samples? Y/N
 Valiates: Headspace Present? Y/N
 Correct Preserve Y/N
 Completed by: _____

CHAIN OF CUSTODY SAMPLE SUBMISSION RECORD

HAWKMTN LABS INC
 201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkmtnlabs.com

Customer: **HAWK MTL LABS**
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____
 Email: _____

CLIENT ID: _____
 THERMOMETER ID: _____
 COMPLETED BY: _____

Report To: **TO: PAE-PA**
 Invoice To: _____
 PO# _____

Data Delivery:
 Fax
 Email
 Web
 Mail

Turn Around Time:
 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 Other: _____
 *surcharge applies

Container Size:
 40 mL 500 mL
 100 mL 1 Liter
 250 mL 1/2 gal

Container Type:
 AG = Amber Glass
 CG = Clear Glass
 PL = Plastic

Matrix:
 SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SCM = Solid/Chemical/Waste
 OT = Other

Comments:
SAMPLES FROM PA

Bacterial Samples Accepted:
 Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED
PL			
IL			
AND			

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	DATE SAMPLED	TIME SAMPLED	MATRIX
	2209-1054-13	9/23/22	1150	NPW
	2209-1054-14	9/23/22	0945	NPW
	2209-1054-15	9/23/22	1335	NPW

Enter Number of Containers Per Analysis	TEMPERATURE (°C)
1	
1	
1	

WO#: 30525886

PM: NMY Due Date: 10/20/22
 CLIENT: HAWK

SAMPLED BY (PRINT): **HML** SIGNED: **HML**

RECEIVED BY: **TA** DATE: **9/28/22** TIME: **055**

RECEIVED AT LAB: **SWB** DATE: **9/28/22** TIME: **1245**

COC REVIEWED: **CMB/PAGE** DATE: **9/28/22** TIME: **1245**

DEP Drinking Water Only PWSID#: _____

Entry Point: _____ Location: _____

Period: Annual Semi-Annual Quarterly Monthly

Type: Check Distribution Start Up Special Follow Up

Raw Plant Initial

Received From Amount: \$ _____

HML Walk in Counter FED EX UPS USPS

Y/N Y/N Y/N Y/N Y/N Y/N

Received on ice? _____

Samples intact? _____

COC intact and complete? _____

Correct Containers? _____

Adequate Samples? _____

Volatiles/HeadSpace Present? _____

Correct Preserve _____

Completed by: _____

CMB | PAGE 9/28/22 19:24

OSP-008-F-02A-REV 009 9/28/22 1935 PDS ARE 92802 PDS ARE 92802 PDS ARE 92802

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Hawk Mtn Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label	<u>PS</u>
LIMS Login	<u>VP</u>

Tracking #: Drop off

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

Thermometer Used 16 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 3.1 °C Correction Factor: -0.2 °C Final Temp: 2.9 °C
Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and initials of person examining contents:	
	Yes	No	N/A	<u>PS 9/29/22</u>	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.	
Sample Labels match COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <u>no dates/times on bottles</u>	
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.	
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.	
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.	
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	
-Pace Containers Used:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.	
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.	
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>PHC2</u>	
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>PS</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.	
Trip Blank Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18.	
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>PS</u>	Date: <u>9/29/22</u> Survey Meter SN: <u>1563</u>

WO# : 30525886
 PM: NMY Due Date: 10/20/22
 CLIENT: HAWK

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Greensburg Lab - Sample Container Count

Client

Site 2209-1054

* 15 Samples Each
2 x BP1N Each

Profile Number 1649

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WG9U	WGKU	ZPLC
1	WT											2																
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
1215																												

WO#: 30525886

Due Date: 10/20/22

PM: NMY
CLIENT: HAWK

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass Na Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WG9U	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WGKU	8oz wide jar unpreserved

Plastic / Misc.	
GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250ml plastic NaOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved
EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag
WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/24/2023

Page 1 of 31

Report Narrative

HawkMtn WO #: 2211-01379
Subject Line: Montour 2022 Surface Water Project

Lab pH hold time is immediate (defined as 15 minutes from sampling time).

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on "a dry weight" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc.

and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependent on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.

PA DEP 40-417
EPA PA00169



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

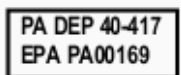
Report Date: 1/19/2023

Page 2 of 31

Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-001
Date Sampled: 12/20/2022 Time Sampled: 9:40 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: ECC-1
Client Sample ID: ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	139.5 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	9:40
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	15.0 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	14.6 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0240 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.107 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0550 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0520 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	48.4 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0173 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0193 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-001
Date Sampled:	12/20/2022	Time Sampled:	9:40
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	ECC-1	Sample Point ID:	ECC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	6.92 mg/L	0.218	1	1.0	EPA 300.0	M1	GW	12/21/22 3:00	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		GW	12/21/22 3:00	
Sulfate	15.2 mg/L	0.252	1	5.0	EPA 300.0		GW	12/21/22 3:00	
Radium 226	-0.199+/-0.277 pCi/L		1	0.701	EPA 903.1		65-00282	1/11/23 16:20	0:00
Radium 228	0.903 +/- 0.486 pCi/L		1	0.883	EPA 904.0		65-00282	1/11/23 15:05	0:00
Dissolved oxygen	13.68 mg/L				Field Meter	N	SH	12/20/22 9:40	
ORP (ReDox)	336.6 mv				Field Meter	N	SH	12/20/22 9:40	
Temp, Field	2.0 C				Field Meter		SH	12/20/22 9:40	
Turbidity, Field	2.80 NTU				Field Meter		SH	12/20/22 9:40	
Turbidity	3.8 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:20	12/20/22 16:27
Alkalinity as CaCO3	30.2 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 11:55	
Total Dissolved Solids	60 mg/L	1.0	1	10	SM 2540 C		NR	12/23/22 9:49	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	12/23/22 9:49	
pH, Field	6.79 su	1.68			SM 4500-H+B		SH	12/20/22 9:40	
pH, Lab	6.88 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:31	12/21/22 15:50
Radium, Total	0.903 +/- 0.763 pCi/L		1	1.58	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

This certificate is not to be reproduced except in full, without the written approval of HawkMtn Labs.



Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

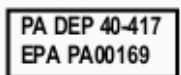
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-002
Date Sampled: 12/20/2022 Time Sampled: 9:40 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: ECC-1D
Client Sample ID: ECC-1D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	139.5 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	9:40
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	14.7 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	14.2 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0200 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.102 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0520 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0490 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	47.2 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Barium, Dissolved	0.0168 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0187 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-002
Date Sampled:	12/20/2022	Time Sampled:	9:40
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	ECC-1D	Sample Point ID:	ECC-1D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	6.96 mg/L	0.218	1	1.0	EPA 300.0		NS	12/21/22 13:58	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 13:58	
Sulfate	15.2 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 13:58	
Radium 226	0.249 +/- 0.260 pCi/L		1	0.367	EPA 903.1		65-00282	1/11/23 16:20	0:00
Radium 228	0.740 +/- 0.421 pCi/L		1	0.782	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.68 mg/L				Field Meter	N	SH	12/20/22 9:40	
ORP (ReDox)	336.6 mv				Field Meter	N	SH	12/20/22 9:40	
Temp, Field	2.0 C				Field Meter		SH	12/20/22 9:40	
Turbidity, Field	2.80 NTU				Field Meter		SH	12/20/22 9:40	
Turbidity	3.9 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:21	12/20/22 16:27
Alkalinity as CaCO3	30.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:02	
Total Dissolved Solids	62 mg/L	1.0	1	10	SM 2540 C		NR	12/23/22 9:49	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	12/23/22 9:49	
pH, Field	6.79 su	1.68			SM 4500-H+B		SH	12/20/22 9:40	
pH, Lab	7.09 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:33	12/21/22 15:50
Radium, Total	0.989 +/- 0.681 pCi/L		1	1.15	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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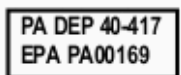
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-003
Date Sampled: 12/20/2022 Time Sampled: 10:19 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: MCC-1
Client Sample ID: MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	174.2 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	10:19
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	20.1 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	19.5 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0550 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.401 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0730 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0710 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	67.7 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Barium, Dissolved	0.0214 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0248 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.00105 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-003
Date Sampled:	12/20/2022	Time Sampled:	10:19
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	MCC-1	Sample Point ID:	MCC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	7.86 mg/L	0.218	1	1.0	EPA 300.0		NS	12/21/22 14:12	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 14:12	
Sulfate	23.2 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 14:12	
Radium 226	0.0579+/-0.377 pCi/L		1	0.759	EPA 903.1		65-00282	1/11/23 16:20	0:00
Radium 228	0.778 +/- 0.507 pCi/L		1	0.979	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.62 mg/L				Field Meter	N	SH	12/20/22 10:19	
ORP (ReDox)	305.0 mv				Field Meter	N	SH	12/20/22 10:19	
Temp, Field	2.3 C				Field Meter		SH	12/20/22 10:19	
Turbidity, Field	8.13 NTU				Field Meter		SH	12/20/22 10:19	
Turbidity	8.9 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:21	12/20/22 16:27
Alkalinity as CaCO3	41.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:09	
Total Dissolved Solids	94 mg/L	1.0	1	10	SM 2540 C		NR	12/27/22 10:45	
Total Suspended Solids	9.4 mg/L	2.0	1	5	SM 2540 D		NR	12/27/22 10:45	
pH, Field	6.83 su	1.68			SM 4500-H+B		SH	12/20/22 10:19	
pH, Lab	7.17 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:34	12/21/22 15:50
Radium, Total	0.836 +/- 0.884 pCi/L		1	1.74	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



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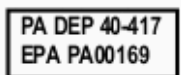
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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-004
Date Sampled: 12/20/2022 Time Sampled: 10:52 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: CC-1
Client Sample ID: CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	162.2 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	10:52
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	18.0 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	18.3 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0640 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.308 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0680 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0650 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	62.2 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0206 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0240 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-004
Date Sampled:	12/20/2022	Time Sampled:	10:52
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	CC-1	Sample Point ID:	CC-1

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	7.70 mg/L	0.218	1	1.0	EPA 300.0		NS	12/21/22 14:26	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 14:26	
Sulfate	19.8 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 14:26	
Radium 226	0.0531+/-0.275 pCi/L		1	0.572	EPA 903.1		65-00282	1/11/23 16:20	0:00
Radium 228	0.226 +/- 0.384 pCi/L		1	0.838	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.59 mg/L				Field Meter	N	SH	12/20/22 10:52	
ORP (ReDox)	284.0 mv				Field Meter	N	SH	12/20/22 10:52	
Temp, Field	2.1 C				Field Meter		SH	12/20/22 10:52	
Turbidity, Field	6.67 NTU				Field Meter		SH	12/20/22 10:52	
Turbidity	7.8 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:22	12/20/22 16:27
Alkalinity as CaCO3	37.4 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:17	
Total Dissolved Solids	83 mg/L	1.0	1	10	SM 2540 C		NR	12/27/22 10:45	
Total Suspended Solids	7.0 mg/L	2.0	1	5	SM 2540 D		NR	12/27/22 10:45	
pH, Field	6.89 su	1.68			SM 4500-H+B		SH	12/20/22 10:52	
pH, Lab	7.15 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:37	12/21/22 15:50
Radium, Total	0.279 +/- 0.659 pCi/L		1	1.41	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
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Washingtonville, PA 17884

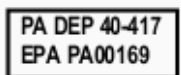
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-005
Date Sampled: 12/20/2022 Time Sampled: 11:22 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: CC-2
Client Sample ID: CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	164.1 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	11:22
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	18.0 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	18.1 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0650 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.354 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0640 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0670 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	61.8 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Barium, Dissolved	0.0206 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0238 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-005
Date Sampled:	12/20/2022	Time Sampled:	11:22
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	CC-2	Sample Point ID:	CC-2

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	7.72 mg/L	0.218	1	1.0	EPA 300.0	M1	NS	12/21/22 15:36	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0	M1	NS	12/21/22 15:36	
Sulfate	20.4 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 15:36	
Radium 226	0.312 +/- 0.434 pCi/L		1	0.734	EPA 903.1		65-00282	1/11/23 16:20	0:00
Radium 228	0.593 +/- 0.363 pCi/L		1	0.667	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.66 mg/L				Field Meter	N	SH	12/20/22 11:22	
ORP (ReDox)	756.2 mv				Field Meter	N	SH	12/20/22 11:22	
Temp, Field	2.2 C				Field Meter		SH	12/20/22 11:22	
Turbidity, Field	7.96 NTU				Field Meter		SH	12/20/22 11:22	
Turbidity	8.0 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:22	12/20/22 16:27
Alkalinity as CaCO3	37.6 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:25	
Total Dissolved Solids	84 mg/L	1.0	1	10	SM 2540 C		NR	12/27/22 10:45	
Total Suspended Solids	8.0 mg/L	2.0	1	5	SM 2540 D		NR	12/27/22 10:45	
pH, Field	6.87 su	1.68			SM 4500-H+B		SH	12/20/22 11:22	
pH, Lab	7.19 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:38	12/21/22 15:50
Radium, Total	0.905 +/- 0.797 pCi/L		1	1.40	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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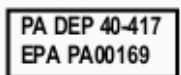
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-006
Date Sampled: 12/20/2022 Time Sampled: 11:55 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: CC-3
Client Sample ID: CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	199.0 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	11:55
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	24.2 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	23.5 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0480 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.317 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0840 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0800 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	78.0 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0207 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0233 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.00147 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.00145 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-006
Date Sampled:	12/20/2022	Time Sampled:	11:55
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	CC-3	Sample Point ID:	CC-3

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	8.70 mg/L	0.218	1	1.0	EPA 300.0		NS	12/21/22 15:08	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 15:08	
Sulfate	34.0 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 15:08	
Radium 226	0.350 +/- 0.355 pCi/L		1	0.538	EPA 903.1		65-00282	1/11/23 16:20	0:00
Radium 228	0.186 +/- 0.385 pCi/L		1	0.850	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.77 mg/L				Field Meter	N	SH	12/20/22 11:55	
ORP (ReDox)	282.7 mv				Field Meter	N	SH	12/20/22 11:55	
Temp, Field	2.2 C				Field Meter		SH	12/20/22 11:55	
Turbidity, Field	10.62 NTU				Field Meter		SH	12/20/22 11:55	
Turbidity	7.2 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:23	12/20/22 16:27
Alkalinity as CaCO3	43.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:33	
Total Dissolved Solids	110 mg/L	1.0	1	10	SM 2540 C		NR	12/27/22 10:45	
Total Suspended Solids	6.8 mg/L	2.0	1	5	SM 2540 D		NR	12/27/22 10:45	
pH, Field	7.08 su	1.68			SM 4500-H+B		SH	12/20/22 11:55	
pH, Lab	7.23 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:40	12/21/22 15:50
Radium, Total	0.536 +/- 0.740 pCi/L		1	1.39	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Customer: Montour, LLC
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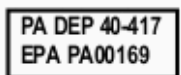
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-007
Date Sampled: 12/20/2022 Time Sampled: 12:37 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: CC-4
Client Sample ID: CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	199.0 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	12:37
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	23.3 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	23.5 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0500 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.595 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0820 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0830 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	78.3 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0202 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0253 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.00141 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.00196 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	0.00120 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-007
Date Sampled:	12/20/2022	Time Sampled:	12:37
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	CC-4	Sample Point ID:	CC-4

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	8.56 mg/L	0.218	1	1.0	EPA 300.0		NS	12/21/22 17:01	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 17:01	
Sulfate	32.8 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 17:01	
Radium 226	-0.257+/-0.303 pCi/L		1	0.770	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	-0.0150+/-0.385 pCi/L		1	0.904	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.91 mg/L				Field Meter	N	SH	12/20/22 12:37	
ORP (ReDox)	260.6 mv				Field Meter	N	SH	12/20/22 12:37	
Temp, Field	2.3 C				Field Meter		SH	12/20/22 12:37	
Turbidity, Field	11.45 NTU				Field Meter		SH	12/20/22 12:37	
Turbidity	14 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:23	12/20/22 16:27
Alkalinity as CaCO3	42.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:42	
Total Dissolved Solids	109 mg/L	1.0	1	10	SM 2540 C		NR	12/27/22 10:45	
Total Suspended Solids	15.8 mg/L	2.0	1	5	SM 2540 D		NR	12/27/22 10:45	
pH, Field	7.07 su	1.68			SM 4500-H+B		SH	12/20/22 12:37	
pH, Lab	7.27 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:42	12/21/22 15:50
Radium, Total	0.000 +/- 0.688 pCi/L		1	1.67	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
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Washingtonville, PA 17884

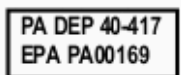
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-008
Date Sampled: 12/20/2022 Time Sampled: 12:37 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: CC-4D
Client Sample ID: CC-4D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	199.0 uS/cm	5		5	EPA 120.1, FIELD		SH	12/20/22	12:37
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	24.0 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	22.6 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0540 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.525 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0870 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0790 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	75.3 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0209 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0251 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.00147 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.00157 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-008
Date Sampled:	12/20/2022	Time Sampled:	12:37
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	CC-4D	Sample Point ID:	CC-4D

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	8.55 mg/L	0.218	1	1.0	EPA 300.0		NS	12/21/22 14:40	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 14:40	
Sulfate	32.8 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 14:40	
Radium 226	0.114 +/- 0.316 pCi/L		1	0.613	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	0.261 +/- 0.343 pCi/L		1	0.729	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.91 mg/L				Field Meter	N	SH	12/20/22 12:37	
ORP (ReDox)	260.6 mv				Field Meter	N	SH	12/20/22 12:37	
Temp, Field	2.3 C				Field Meter		SH	12/20/22 12:37	
Turbidity, Field	11.45 NTU				Field Meter		SH	12/20/22 12:37	
Turbidity	14 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:24	12/20/22 16:27
Alkalinity as CaCO3	42.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:50	
Total Dissolved Solids	110 mg/L	1.0	1	10	SM 2540 C		NR	12/27/22 10:45	
Total Suspended Solids	16.2 mg/L	2.0	1	5	SM 2540 D		NR	12/27/22 10:45	
pH, Field	7.07 su	1.68			SM 4500-H+B		SH	12/20/22 12:37	
pH, Lab	7.24 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:45	12/21/22 15:50
Radium, Total	0.375 +/- 0.659 pCi/L		1	1.34	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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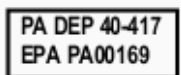
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-009
Date Sampled: 12/19/2022 Time Sampled: 15:11 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: Trib 18790
Client Sample ID: Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	543.0 uS/cm	5		5	EPA 120.1, FIELD		SH	12/19/22	15:11
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	51.3 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	65.8 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.101 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.412 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.137 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.162 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	182 mg/L	0.210	20	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0374 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0494 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.00162 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.00220 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-009
Date Sampled:	12/19/2022	Time Sampled:	15:11
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	Trib 18790	Sample Point ID:	Trib 18790

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	71.0 mg/L	0.218	10	1.0	EPA 300.0		GW	12/20/22 19:57	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		GW	12/20/22 19:43	
Sulfate	42.1 mg/L	0.252	1	5.0	EPA 300.0		GW	12/20/22 19:43	
Radium 226	-0.102+/-0.401 pCi/L		1	0.852	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	0.395 +/- 0.396 pCi/L		1	0.814	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.89 mg/L				Field Meter	N	SH	12/19/22 15:11	
ORP (ReDox)	245.6 mv				Field Meter	N	SH	12/19/22 15:11	
Temp, Field	0.6 C				Field Meter		SH	12/19/22 15:11	
Turbidity, Field	13.02 NTU				Field Meter		SH	12/19/22 15:11	
Turbidity	24 NTU		1	1.0	SM 2130 B		ACM	12/20/22 11:36	12/20/22 11:41
Alkalinity as CaCO3	126 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/21/22 12:59	
Total Dissolved Solids	314 mg/L	1.0	1	10	SM 2540 C		NR	12/22/22 10:07	
Total Suspended Solids	24.0 mg/L	2.0	1	5	SM 2540 D		NR	12/22/22 10:07	
pH, Field	7.35 su	1.68			SM 4500-H+B		SH	12/19/22 15:11	
pH, Lab	7.60 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:46	12/21/22 15:50
Radium, Total	0.395 +/- 0.797 pCi/L		1	1.67	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Washingtonville, PA 17884

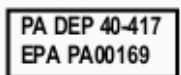
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-010
Date Sampled: 12/19/2022 Time Sampled: 14:40 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: Trib 18787 (1)
Client Sample ID: Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	261.0 uS/cm	5		5	EPA 120.1, FIELD		SH	12/19/22	14:40
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	31.4 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	30.7 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.126 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	1.13 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.0860 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.0860 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	103 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0389 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0676 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	0.00203 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.00102 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.00247 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-010
Date Sampled:	12/19/2022	Time Sampled:	14:40
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (1)	Sample Point ID:	Trib 18787 (1)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	14.8 mg/L	0.218	5	1.0	EPA 300.0		GW	12/20/22 19:29	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		GW	12/20/22 19:15	
Sulfate	42.9 mg/L	0.252	1	5.0	EPA 300.0		GW	12/20/22 19:15	
Radium 226	0.465 +/- 0.364 pCi/L		1	0.428	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	0.319 +/- 0.407 pCi/L		1	0.864	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	12.79 mg/L				Field Meter	N	SH	12/19/22 14:40	
ORP (ReDox)	269.8 mv				Field Meter	N	SH	12/19/22 14:40	
Temp, Field	0.7 C				Field Meter		SH	12/19/22 14:40	
Turbidity, Field	24.80 NTU				Field Meter		SH	12/19/22 14:40	
Turbidity	27 NTU		1	1.0	SM 2130 B		ACM	12/20/22 11:37	12/20/22 11:41
Alkalinity as CaCO3	50.4 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/22/22 15:49	
Total Dissolved Solids	171 mg/L	1.0	1	10	SM 2540 C		NR	12/22/22 10:07	
Total Suspended Solids	8.6 mg/L	2.0	1	5	SM 2540 D		NR	12/22/22 10:07	
pH, Field	6.84 su	1.68			SM 4500-H+B		SH	12/19/22 14:40	
pH, Lab	6.99 su	0.1	1		SM 4500-H+B	H1	JBB	12/22/22 15:11	12/22/22 15:53
Radium, Total	0.784 +/- 0.771 pCi/L		1	1.29	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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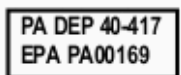
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-011
Date Sampled: 12/19/2022 Time Sampled: 13:22 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: Trib 18787 (2)
Client Sample ID: Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	372.3 uS/cm	5		5	EPA 120.1, FIELD		SH	12/19/22	13:22
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	54.2 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	57.0 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.130 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.890 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.150 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.157 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	169 mg/L	0.210	20	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0378 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0676 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	0.00212 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.00216 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.00366 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	0.00192 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
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Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-011
Date Sampled: 12/19/2022 Time Sampled: 13:22 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: Trib 18787 (2)
Client Sample ID: Trib 18787 (2)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	12.1 mg/L	0.218	5	1.0	EPA 300.0		GW	12/20/22 16:12	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		GW	12/20/22 15:58	
Sulfate	98.0 mg/L	0.252	5	5.0	EPA 300.0		GW	12/20/22 14:05	
Radium 226	0.158 +/- 0.536 pCi/L		1	1.03	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	1.09 +/- 0.695 pCi/L		1	1.33	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.03 mg/L				Field Meter	N	SH	12/19/22 13:22	
ORP (ReDox)	240.0 mv				Field Meter	N	SH	12/19/22 13:22	
Temp, Field	0.5 C				Field Meter		SH	12/19/22 13:22	
Turbidity, Field	18.15 NTU				Field Meter		SH	12/19/22 13:22	
Turbidity	20 NTU		1	1.0	SM 2130 B		ACM	12/20/22 11:37	12/20/22 11:41
Alkalinity as CaCO3	56.8 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/22/22 15:57	
Total Dissolved Solids	264 mg/L	1.0	1	10	SM 2540 C		NR	12/22/22 10:07	
Total Suspended Solids	6.4 mg/L	2.0	1	5	SM 2540 D		NR	12/22/22 10:07	
pH, Field	7.10 su	1.68			SM 4500-H+B		SH	12/19/22 13:22	
pH, Lab	7.11 su	0.1	1		SM 4500-H+B	H1	JBB	12/22/22 15:13	12/22/22 15:53
Radium, Total	1.25 +/- 1.23 pCi/L		1	2.36	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

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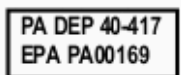
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-012
Date Sampled: 12/19/2022 Time Sampled: 12:49 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: Trib 18787 (3)
Client Sample ID: Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	746.0 uS/cm	5		5	EPA 120.1, FIELD		SH	12/19/22	12:49
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	134 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	132 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0710 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.481 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.418 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.392 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	383 mg/L	0.210	20	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0380 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0496 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.0145 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.0148 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	0.00981 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	0.00983 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
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Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-012
Date Sampled:	12/19/2022	Time Sampled:	12:49
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	Trib 18787 (3)	Sample Point ID:	Trib 18787 (3)

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	30.0 mg/L	0.218	5	1.0	EPA 300.0		GW	12/20/22 18:47	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		GW	12/20/22 18:33	
Sulfate	266 mg/L	0.252	20	5.0	EPA 300.0		GW	12/20/22 19:01	
Radium 226	-0.0613+/-0.280 pCi/L		1	0.570	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	1.02 +/- 0.507 pCi/L		1	0.895	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	12.85 mg/L				Field Meter	N	SH	12/19/22 12:49	
ORP (ReDox)	256.5 mv				Field Meter	N	SH	12/19/22 12:49	
Temp, Field	1.7 C				Field Meter		SH	12/19/22 12:49	
Turbidity, Field	12.14 NTU				Field Meter		SH	12/19/22 12:49	
Turbidity	12 NTU		1	1.0	SM 2130 B		ACM	12/20/22 11:38	12/20/22 11:41
Alkalinity as CaCO3	112 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/22/22 16:06	
Total Dissolved Solids	540 mg/L	1.0	1	10	SM 2540 C		NR	12/22/22 10:07	
Total Suspended Solids	5.3 mg/L	2.0	1	5	SM 2540 D		NR	12/22/22 10:07	
pH, Field	7.13 su	1.68			SM 4500-H+B		SH	12/19/22 12:49	
pH, Lab	7.37 su	0.1	1		SM 4500-H+B	H1	JBB	12/22/22 15:15	12/22/22 15:53
Radium, Total	1.02 +/- 0.787 pCi/L		1	1.47	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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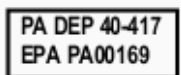
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-013
Date Sampled: 12/19/2022 Time Sampled: 13:51 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: Trib 18788
Client Sample ID: Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	1509.0 uS/cm	5		5	EPA 120.1, FIELD		SH	12/19/22	13:51
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	219 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	212 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.107 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.613 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.580 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	604 mg/L	0.210	20	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39
Barium, Dissolved	0.0314 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0345 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	0.00170 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.0172 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.0172 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	0.00752 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	0.00803 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-013
Date Sampled:	12/19/2022	Time Sampled:	13:51
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	Trib 18788	Sample Point ID:	Trib 18788

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	25.1 mg/L	0.218	5	1.0	EPA 300.0		GW	12/20/22 16:40	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		GW	12/20/22 16:26	
Sulfate	411 mg/L	0.252	20	5.0	EPA 300.0		GW	12/20/22 16:54	
Radium 226	0.543 +/- 0.430 pCi/L		1	0.58	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	1.02 +/- 0.524 pCi/L		1	0.935	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	13.98 mg/L				Field Meter	N	SH	12/19/22 13:51	
ORP (ReDox)	232.7 mv				Field Meter	N	SH	12/19/22 13:51	
Temp, Field	3.3 C				Field Meter		SH	12/19/22 13:51	
Turbidity, Field	0.44 NTU				Field Meter		SH	12/19/22 13:51	
Turbidity	1.7 NTU		1	1.0	SM 2130 B		ACM	12/20/22 11:38	12/20/22 11:41
Alkalinity as CaCO3	186 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/22/22 16:18	
Total Dissolved Solids	793 mg/L	1.0	1	10	SM 2540 C		NR	12/23/22 9:49	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	12/23/22 9:49	
pH, Field	7.46 su	1.68			SM 4500-H+B		SH	12/19/22 13:51	
pH, Lab	7.48 su	0.1	1		SM 4500-H+B	H1	JBB	12/22/22 15:18	12/22/22 15:53
Radium, Total	1.56 +/- 0.954 pCi/L		1	1.52	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

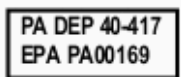
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-014
Date Sampled: 12/20/2022 Time Sampled: 12:38 Sampler: NL
Date Received: 12/20/2022 Sample Point ID: MO 3-5
Client Sample ID: MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23	22:39
Specific Conductance, Field	1490 uS/cm	5		5	EPA 120.1, FIELD		NL	12/20/22	12:38
Boron, Dissolved	0.167 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22	18:40
Boron, Total	0.169 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22	21:50
Calcium, Dissolved	288 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/28/22	18:40
Calcium, Total	281 mg/L	0.0384	20	0.500	EPA 200.7		NL	12/27/22	21:50
Iron, Dissolved	0.0360 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22	18:40
Iron, Total	0.290 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22	21:50
Strontium, Dissolved	0.776 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22	18:40
Strontium, Total	0.783 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22	21:50
Hardness, Total as CaCO3	793 mg/L	0.210	20	1.66	EPA 200.7, Calc		NL	12/27/22	21:50
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22	22:43
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23	22:39
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22	22:43
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Barium, Dissolved	0.0235 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22	22:43
Barium, Total	0.0265 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23	22:39
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22	22:43
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23	22:39
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22	22:43
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23	22:39
Cobalt, Dissolved	0.00338 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22	22:43
Cobalt, Total	0.00361 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23	22:39
Lithium, Dissolved	0.0167 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22	22:43
Lithium, Total	0.0169 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23	22:39
Molybdenum, Dissolved	0.00552 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22	22:43
Molybdenum, Total	0.00563 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23	22:39
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22	22:43
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23	22:39 0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22	22:43
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23	22:39 0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22	14:23





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-014
Date Sampled:	12/20/2022	Time Sampled:	12:38
Date Received:	12/20/2022	Sampler:	NL
Client Sample ID:	MO 3-5	Sample Point ID:	MO 3-5

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Chloride	30.0 mg/L	0.218	10	1.0	EPA 300.0		NS	12/21/22 23:36	
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 23:22	
Sulfate	596 mg/L	0.252	50	5.0	EPA 300.0		NS	12/21/22 23:50	
Radium 226	-0.114+/-0.317 pCi/L		1	0.748	EPA 903.1		65-00282	1/11/23 16:35	0:00
Radium 228	0.841 +/- 0.501 pCi/L		1	0.943	EPA 904.0		65-00282	1/11/23 15:06	0:00
Dissolved oxygen	12.65 mg/L				Field Meter	N	NL	12/20/22 12:38	
ORP (ReDox)	143 mv				Field Meter	N	NL	12/20/22 12:38	
Temp, Field	4.8 C				Field Meter		NL	12/20/22 12:38	
Turbidity, Field	6.04 NTU				Field Meter		NL	12/20/22 12:38	
Turbidity	2.7 NTU		1	1.0	SM 2130 B		ACM	12/22/22 7:16	12/22/22 7:19
Alkalinity as CaCO3	202 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/22/22 13:50	
Total Dissolved Solids	1060 mg/L	1.0	1	10	SM 2540 C		NR	12/23/22 9:49	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	12/23/22 9:49	
pH, Field	7.46 su	1.68			SM 4500-H+B		NL	12/20/22 12:38	
pH, Lab	7.69 su	0.1	1		SM 4500-H+B	H1	JBB	12/21/22 15:15	12/21/22 15:50
Radium, Total	0.841 +/- 0.818 pCi/L		1	1.69	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director



Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

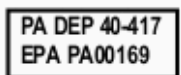
Report Date: 1/19/2023

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Certificate of Analysis

Material Tested: Non Potable Water HawkMtn WO #: 2211-01379-015
Date Sampled: 12/20/2022 Time Sampled: 12:45 Sampler: SH
Date Received: 12/20/2022 Sample Point ID: SW FB
Client Sample ID: SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Talen Total & Diss. Metals			1				NL	1/4/23 22:39	
Boron, Dissolved	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/28/22 18:40	
Boron, Total	<0.100 mg/L	0.0483	1	0.100	EPA 200.7		NL	12/27/22 21:50	
Calcium, Dissolved	<0.500 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/28/22 18:40	
Calcium, Total	<0.500 mg/L	0.0384	1	0.500	EPA 200.7		NL	12/27/22 21:50	
Iron, Dissolved	<0.020 mg/L	0.00102	1	0.020	EPA 200.7		NL	12/28/22 18:40	
Iron, Total	<0.020 mg/L	0.0122	1	0.020	EPA 200.7		NL	12/27/22 21:50	
Strontium, Dissolved	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/28/22 18:40	
Strontium, Total	<0.020 mg/L	0.00245	1	0.020	EPA 200.7		NL	12/27/22 21:50	
Hardness, Total as CaCO3	<1.66 mg/L	0.210	1	1.66	EPA 200.7, Calc		NL	12/27/22 21:50	
Antimony, Dissolved	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Antimony, Total	<0.001 mg/L	0.000388	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Arsenic, Dissolved	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Arsenic, Total	<0.001 mg/L	0.000548	1	0.001	EPA 200.8		NL	1/4/23 22:39	0:00
Barium, Dissolved	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Barium, Total	<0.001 mg/L	0.000227	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Beryllium, Dissolved	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Beryllium, Total	<0.001 mg/L	0.000190	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Cadmium, Dissolved	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Cadmium, Total	<0.001 mg/L	0.000152	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Chromium, Dissolved	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Chromium, Total	<0.001 mg/L	0.000411	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Cobalt, Dissolved	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Cobalt, Total	<0.001 mg/L	0.000127	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Lead, Dissolved	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Lead, Total	<0.001 mg/L	0.000229	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Lithium, Dissolved	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Lithium, Total	<0.001 mg/L	0.000789	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Molybdenum, Dissolved	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Molybdenum, Total	<0.001 mg/L	0.000300	1	0.001	EPA 200.8		NL	1/4/23 22:39	
Selenium, Dissolved	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	12/30/22 22:43	
Selenium, Total	<0.005 mg/L	0.000632	1	0.005	EPA 200.8		NL	1/4/23 22:39	0:00
Thallium, Dissolved	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	12/30/22 22:43	
Thallium, Total	<0.001 mg/L	0.000233	1	0.001	EPA 200.8		NL	1/4/23 22:39	0:00
Mercury, Field Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22 14:23	
Mercury, Reagent Blank	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22 14:23	
Mercury, Total - NPDES	<0.100 ug/L	0.0327	1	0.100	EPA 245.7		NL	12/28/22 14:23	
Chloride	<1.0 mg/L	0.218	1	1.0	EPA 300.0		NS	12/21/22 16:47	





Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

Report Date: 1/19/2023

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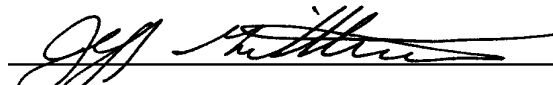
Certificate of Analysis

Material Tested:	Non Potable Water	HawkMtn WO #:	2211-01379-015
Date Sampled:	12/20/2022	Time Sampled:	12:45
Date Received:	12/20/2022	Sampler:	SH
Client Sample ID:	SW FB	Sample Point ID:	SW FB

Analysis	Result	MDL	Dilution	Quant Limit	Method	Qual	Tech	Start	End
Fluoride	<0.20 mg/L	0.0281	1	0.20	EPA 300.0		NS	12/21/22 16:47	
Sulfate	<5.0 mg/L	0.252	1	5.0	EPA 300.0		NS	12/21/22 16:47	
Radium 226	-0.0540+/-0.280 pCi/L		1	0.649	EPA 903.1		65-00282	1/11/23 16:50	0:00
Radium 228	0.894 +/- 0.452 pCi/L		1	0.797	EPA 904.0		65-00282	1/11/23 15:07	0:00
Turbidity	1.3 NTU		1	1.0	SM 2130 B		ACM	12/20/22 16:24	12/20/22 16:27
Alkalinity as CaCO3	<20.0 mg/L	1.0	1	20.0	SM 2320 B	A1	JBB	12/22/22 16:34	
Total Dissolved Solids	<10 mg/L	1.0	1	10	SM 2540 C		NR	12/27/22 10:45	
Total Suspended Solids	<5 mg/L	2.0	1	5	SM 2540 D		NR	12/27/22 10:45	
pH, Lab	7.89 su	0.1	1		SM 4500-H+B	H1	JBB	12/22/22 15:20	12/22/22 15:53
Radium, Total	0.894 +/- 0.732 pCi/L		1	1.45	Total Radium Calculation		65-00282	1/12/23 15:57	0:00

These results relate only to the sample noted above.

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Jeffrey Gittleman, Laboratory Director

65-00282 = Pace Analytical, PA

A1 = Alkalinity is determined to a pH endpoint of 4.5 su.

H1 = Sample was received after the expiration of the holding time.

M1 = The MS recovery was above the acceptance limits. Result may be biased high

N = Hawk Mtn. Labs does not hold accreditation from the PA-DEP for the field of accreditation.

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

Chain of Custody

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Samples Intact?	<input checked="" type="checkbox"/>	Y	<input type="checkbox"/>	N
Transported on ice?	<input checked="" type="checkbox"/>	Y	<input type="checkbox"/>	N
COC intact and complete?	<input checked="" type="checkbox"/>	Y	<input type="checkbox"/>	N
Correct containers?	<input checked="" type="checkbox"/>	Y	<input type="checkbox"/>	N
Adequate samples?	<input checked="" type="checkbox"/>	Y	<input type="checkbox"/>	N
Volatiles: headspace present?	<input checked="" type="checkbox"/>	Y	<input type="checkbox"/>	N
Completed by:	SH			
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/>	Y	<input checked="" type="checkbox"/>	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** ECC-1
Sample 001: ECC-1

Printed On: 11/29/2022
Printed By: ALP
Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	<u>2.0</u>	C	SH
Turbidity, Field	WA-FTURB	<u>2.80</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>336.6</u>	mv	SH
Dissolved oxygen	WA-DO	<u>13.68</u>	mg/L	SH
pH, Field	WA-FPH	<u>6.79</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>139.5</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>0.1</u>	C	SH
pH meter ID	QC-PHMETER	<u>751055772</u>		SH

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** [Signature] **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
				12-20-22
			-	-
			-	-
			-	-
			12-20-22	14:15
			12/20/22	1503

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles; headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** ECC-1D
Sample 002: ECC-1D

Printed On: 11/29/2022
Printed By: ALP
Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	2.0	C	SH
Turbidity, Field	WA-FTURB	2.80	NTU	SH
ORP (ReDox)	WA-ORP	336.6	mv	SH
Dissolved oxygen	WA-DO	13.68	mg/L	SH
pH, Field	WA-FPH	6.79	su	SH
Specific Conductance, Field	WA-SPEC.-F	139.5	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	1.0	C	SH
pH meter ID	QC-PHMETER	YSIDSS772		SH

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** [Signature] **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y/N	SWL Required	Date:	Time:
	Sampled By:	<u>[Signature]</u>	12-20-22	9:40
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>[Signature]</u>	12-20-22	14:15
Logged in By:	<u>[Signature]</u>	12/20/22	15:53	

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.

201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Transported on ice?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
COC intact and complete?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Correct containers?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Adequate samples?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / <input type="checkbox"/> N
Completed by:	SH
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** MCC-1
Sample 003: MCC-1

Printed On: 11/29/2022
 Printed By: HP
 Approved By:

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	<u>2.3</u>	C	SH
Turbidity, Field	WA-FTURB	<u>8.13</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>305.0</u>	mv	SH
Dissolved oxygen	WA-DO	<u>13.62</u>	mg/L	SH
pH, Field	WA-FPH	<u>6.83</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>174.2</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>1.0</u>	C	SH
pH meter ID	QC-PHMETER	<u>75105577</u>		SH

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
			<u> </u>	<u>12-20-22</u>
	Sampled By:	<u> </u>	<u> </u>	<u> </u>
	Relinquished By:	<u> </u>	<u> </u>	<u> </u>
	Received By:	<u> </u>	<u> </u>	<u> </u>
	Relinquished By:	<u> </u>	<u> </u>	<u> </u>
	Received at Lab By:	<u> </u>	<u>12-20-22</u>	<u>14:15</u>
	Logged in By:	<u> </u>	<u>12/29/22</u>	<u>1503</u>

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Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** CC-1
Sample 004: CC-1

Printed On: 11/29/2022
Printed By: ALP
Approved By: AL

Matrix: Non Potable Water

Pick up date:

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - 1 - Amber Glass 250mL HCl
 - 1 Amber Glass 250mL(Field Bl.) HCl
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>2.1</u>	C	<u>SH</u>
Turbidity, Field	WA-FTURB	<u>6.67</u>	NTU	<u>SH</u>
ORP (ReDox)	WA-ORP	<u>284.6</u>	mv	<u>SH</u>
Dissolved oxygen	WA-DO	<u>17.59</u>	mg/L	<u>SH</u>
pH, Field	WA-FPH	<u>6.89</u>	su	<u>SH</u>
Specific Conductance, Field	WA-SPEC.-F	<u>162.2</u>	uS/cm	<u>SH</u>
Temp Upon Receipt	QC-TEMPREC	<u>0.5</u>	C	<u>SH</u>
pH meter ID	QC-PHMETER	<u>752055772</u>		<u>SH</u>

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** rum **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
				<u>12-20-22</u>
			-	-
			-	-
			-	-
			<u>12-20-22</u>	<u>14:15</u>
			<u>12/20/22</u>	<u>1503</u>

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Chain of Custody

Samples intact?	<u>SH</u> / N
Transported on ice?	<u>SH</u> / N
COC intact and complete?	<u>SH</u> / N
Correct containers?	<u>SH</u> / N
Adequate samples?	<u>SH</u> / N
Volatiles: headspace present?	<u>SH</u> / N
Completed by:	<u>SH</u>
Samples/COC/Analysis agree?	<u>Y</u> / N <u>SH</u>

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** CC-2
Sample 005: CC-2

Printed On: 11/29/2022
 Printed By: AP
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>2.1</u>	C	<u>SH</u>
Turbidity, Field	WA-FTURB	<u>7.96</u>	NTU	<u>SH</u>
ORP (ReDox)	WA-ORP	<u>256.2</u>	mv	<u>SH</u>
Dissolved oxygen	WA-DO	<u>13.66</u>	mg/L	<u>SH</u>
pH, Field	WA-FPH	<u>6.87</u>	su	<u>SH</u>
Specific Conductance, Field	WA-SPEC.-F	<u>164.1</u>	uS/cm	<u>SH</u>
Temp Upon Receipt	QC-TEMPREC	<u>6.5</u>	C	<u>SH</u>
pH meter ID	QC-PHMETER	<u>YSDSS772</u>		<u>SH</u>

Sampling Comments: _____
 Bottles Made By: SH Bottles Checked By: [Signature] Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - <u>YLN</u>	SWL Required - <u>Y/N</u>	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>11:22</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received By:	<u>-</u>	<u>-</u>	<u>-</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received at Lab By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>14:15</u>
Logged in By:	<u>[Signature]</u>	<u>12/20/22</u>	<u>15:03</u>	

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Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/>	/	N
Transported on ice?	<input checked="" type="checkbox"/>	/	N
COC intact and complete?	<input checked="" type="checkbox"/>	/	N
Correct containers?	<input checked="" type="checkbox"/>	/	N
Adequate samples?	<input checked="" type="checkbox"/>	/	N
Volatiles: headspace present?	<input checked="" type="checkbox"/>	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/>	/	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** CC-3
Sample 006: CC-3

Printed On: 11/29/2022
 Printed By: ALP
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>2.2</u>	C	SH
Turbidity, Field	WA-FTURB	<u>10.62</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>282.7</u>	mv	SH
Dissolved oxygen	WA-DO	<u>13.77</u>	mg/L	SH
pH, Field	WA-FPH	<u>7.08</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>199.0</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>1.2</u>	C	SH
pH meter ID	QC-PHMETER	<u>YSI055772</u>		SH

Sampling Comments:

Bottles Made By: CH Bottles Checked By: [Signature] Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>11:55</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received By:	<u>-</u>	<u>-</u>	<u>-</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received at Lab By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>14:15</u>
	Logged in By:	<u>[Signature]</u>	<u>12/20/22</u>	<u>15:03</u>

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Chain of Custody

Samples intact?	<input checked="" type="checkbox"/> / N
Transported on ice?	<input checked="" type="checkbox"/> / N
COC intact and complete?	<input checked="" type="checkbox"/> / N
Correct containers?	<input checked="" type="checkbox"/> / N
Adequate samples?	<input checked="" type="checkbox"/> / N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / N
Completed by:	SH
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> / N <i>88</i>

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** CC-4
Sample 007: CC-4

Printed On: 11/29/2022
 Printed By: ALP
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	<u>2.3</u>	C	SH
Turbidity, Field	WA-FTURB	<u>11.45</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>260.6</u>	mv	SH
Dissolved oxygen	WA-DO	<u>13.91</u>	mg/L	SH
pH, Field	WA-FPH	<u>7.07</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>199.0</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>0.3</u>	C	SH
pH meter ID	QC-PHMETER	<u>YSI055772</u>		SH

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** [Signature] **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>12:37</u>
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>14:15</u>
	Logged in By:	<u>[Signature]</u>	<u>12/20/22</u>	<u>15:03</u>

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Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** CC-4D
Sample 008: CC-4D

Printed On: 11/29/2022
 Printed By: ALP
 Approved By: M

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	2.3	C	SH
Turbidity, Field	WA-FTURB	11.45	NTU	SH
ORP (ReDox)	WA-ORP	260.6	mv	SH
Dissolved oxygen	WA-DO	13.91	mg/L	SH
pH, Field	WA-FPH	7.07	su	SH
Specific Conductance, Field	WA-SPEC.-F	199.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.1	C	SH
pH meter ID	QC-PHMETER	YS105577		SH

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** _____ **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	12-20-22	12:37
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>[Signature]</u>	12-20-22	14:15
Logged in By:	<u>[Signature]</u>	12/20/22	15:03	

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Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** Trib 18790
Sample 009: Trib 18790

Printed On: 11/29/2022
 Printed By: HLP
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL (Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	0.6	C	SH
Turbidity, Field	WA-FTURB	13.02	NTU	SH
ORP (ReDox)	WA-ORP	245.6	mv	SH
Dissolved oxygen	WA-DO	13.89	mg/L	SH
pH, Field	WA-FPH	7.35	su	SH
Specific Conductance, Field	WA-SPEC.-F	543.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.1	C	SH
pH meter ID	QC-PHMETER	YSI 345772		SH

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** LL **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required Y/N	Date:	Time:
				12-19-22
			-	-
			-	-
			-	-
			12-20-22	7:20
			12/20/22	0748

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Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/>	/	N
Transported on ice?	<input checked="" type="checkbox"/>	/	N
COC intact and complete?	<input checked="" type="checkbox"/>	/	N
Correct containers?	<input checked="" type="checkbox"/>	/	N
Adequate samples?	<input checked="" type="checkbox"/>	/	N
Volatiles: headspace present?	<input checked="" type="checkbox"/>	/	N
Completed by:	SH		
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/>	Y	N

Printed On: 11/29/2022
 Printed By: ALP
 Approved By: [Signature]

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** Trib 18787 (1)
Sample 010: Trib 18787 (1)

Matrix: Non Potable Water

Pick up date:

- Bottles:**
- Plastic 250mL ALK Unpreserved
 - 1 - Amber Glass 250mL HCl
 - ~~1 Amber Glass 250mL (Field-Bl.) HCl~~
 - Plastic 1L Unpreserved
 - Plastic 250mL HNO3
 - Plastic 250mL Dissolved Metals Filtered, HNO3
 - Plastic 1L, Ra-226 HNO3
 - Plastic 1L, Ra-228 HNO3
 - Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	0.7	C	SH
Turbidity, Field	WA-FTURB	24.80	NTU	SH
ORP (ReDox)	WA-ORP	269.8	mv	SH
Dissolved oxygen	WA-DO	12.79	mg/L	SH
pH, Field	WA-FPH	6.94	su	SH
Specific Conductance, Field	WA-SPEC.-F	261.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.1	C	SH
pH meter ID	QC-PHMETER	751065772		SH

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** LL **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	12-19-22	14:40
	Relinquished By:	-	-	-
	Received By:	-	-	-
	Relinquished By:	-	-	-
	Received at Lab By:	<u>[Signature]</u>	12-20-22	7:20
	Logged in By:	<u>[Signature]</u>	12/20/22	0748

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Chain of Custody

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** Trib 18787 (2)
Sample 011: Trib 18787 (2)

Printed On: 11/29/2022
Printed By: AP
Approved By: M

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	6.5	C	SH
Turbidity, Field	WA-FTURB	18.15	NTU	SH
ORP (ReDox)	WA-ORP	240.0	mv	SH
Dissolved oxygen	WA-DO	13.03	mg/L	SH
pH, Field	WA-FPH	7.10	su	SH
Specific Conductance, Field	WA-SPEC.-F	372.3	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.2	C	SH
pH meter ID	QC-PHMETER	YS1055772		SH

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- ~~1 - Amber Glass 250mL (Field-Bt.) HCl~~
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
Bottles Made By: SH **Bottles Checked By:** LL **Composite Sample: Start Time/Date:** _____ **End Time/Date:** _____

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
				12-14-22
	Sampled By:	<u>[Signature]</u>		
	Relinquished By:			
	Received By:			
	Relinquished By:			
	Received at Lab By:	<u>[Signature]</u>	12-20-22	7:20
	Logged in By:	<u>[Signature]</u>	12/20/22	0748

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Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	SH
Samples/COC/Analysis agree?	Y / N

Subject Line: Montour 2022 Surface Water Project

Work Order #: 2211-01379 **Sample ID:** Trib 18787 (3)

Sample 012: Trib 18787 (3)

Printed On: 11/29/2022

Printed By: HP

Approved By: u

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	1.7	C	SH
Turbidity, Field	WA-FTURB	12.14	NTU	SH
ORP (ReDox)	WA-ORP	256.5	mv	SH
Dissolved oxygen	WA-DO	12.85	mg/L	SH
pH, Field	WA-FPH	7.13	su	SH
Specific Conductance, Field	WA-SPEC.-F	746.0	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	0.2	C	SH
pH meter ID	QC-PHMETER	751055772		SH

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 - Amber Glass 250mL (Field BI) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments:

Bottles Made By: SH **Bottles Checked By:** LL **Composite Sample: Start Time/Date:** **End Time/Date:**

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
			12-19-22	12:49
			-	-
			-	-
			-	-
			12-20-22	7:20
			12/20/22	0748

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

Chain of Custody

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Samples Intact?	<input checked="" type="checkbox"/> / N
Transported on ice?	<input checked="" type="checkbox"/> / N
COC intact and complete?	<input checked="" type="checkbox"/> / N
Correct containers?	<input checked="" type="checkbox"/> / N
Adequate samples?	<input checked="" type="checkbox"/> / N
Volatiles: headspace present?	<input checked="" type="checkbox"/> / N
Completed by:	SH
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** Trib 18788
Sample 013: Trib 18788

Printed On: 11/29/2022
Printed By: ALP
Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- 1 Amber Glass 250mL (Field BL) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

				Tech
Temp, Field	WA-FT	<u>3.3</u>	C	SH
Turbidity, Field	WA-FTURB	<u>0.44</u>	NTU	SH
ORP (ReDox)	WA-ORP	<u>232.7</u>	mv	SH
Dissolved oxygen	WA-DO	<u>13.98</u>	mg/L	SH
pH, Field	WA-FPH	<u>7.46</u>	su	SH
Specific Conductance, Field	WA-SPEC.-F	<u>1509.0</u>	uS/cm	SH
Temp Upon Receipt	QC-TEMPREC	<u>0.1</u>	C	SH
pH meter ID	QC-PHMETER	<u>YSI015772</u>		SH

Sampling Comments:

Bottles Made By: SH Bottles Checked By: SH Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y/N	SWL Required - Y/N	Date:	Time:
			<u>12-19-22</u>	<u>13:51</u>
			<u>-</u>	<u>-</u>
			<u>-</u>	<u>-</u>
			<u>-</u>	<u>-</u>
			<u>12-20-22</u>	<u>7:20</u>
			<u>12/20/22</u>	<u>0748</u>

Customer: Montour, LLC
 18 McMichael Road
 Washingtonville, PA 17884

HAWKMTN LABS, INC.
 201 W. Clay Ave., Hazle Township, PA 18202
 Phone (570) 455-6011 Fax (570) 455-6321

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Transported on ice?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
COC intact and complete?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Correct containers?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Adequate samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Volatiles: headspace present?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Completed by:	<u>[Signature]</u>	
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N <u>[Signature]</u>

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 **Sample ID:** MO 3-5
Sample 014: MO 3-5

Printed On: 11/29/2022
 Printed By: [Signature]
 Approved By: [Signature]

Matrix: Non Potable Water

Pick up date:

Bottles:

				Tech
Temp, Field	WA-FT	<u>4.8</u>	C	<u>[Signature]</u>
Turbidity, Field	WA-FTURB	<u>6.04</u>	NTU	<u>[Signature]</u>
ORP (ReDox)	WA-ORP	<u>343</u>	mv	<u>[Signature]</u>
Dissolved oxygen	WA-DO	<u>12.65</u>	mg/L	<u>[Signature]</u>
pH, Field	WA-FPH	<u>7.46</u>	su	<u>[Signature]</u>
Specific Conductance, Field	WA-SPEC.-F	<u>1490</u>	uS/cm	<u>[Signature]</u>
Temp Upon Receipt	QC-TEMPREC	<u>3.0</u>	C	<u>[Signature]</u>
pH meter ID	QC-PHMETER	<u>452771</u>		<u>[Signature]</u>

- Plastic 250mL ALK Unpreserved
- 1 - Amber Glass 250mL HCl
- ~~1 Amber Glass 250mL (Field-BL) HCl~~ M 12/29/22
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Sampling Comments: _____
 Bottles Made By: [Signature] Bottles Checked By: [Signature] Composite Sample: Start Time/Date: _____ End Time/Date: _____

NOTES:	Flow Required - Y/ <input checked="" type="checkbox"/> N	SWL Required <input checked="" type="checkbox"/> Y/ <input type="checkbox"/> N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>12/20/22</u>	<u>1230</u>
	Relinquished By:	_____	_____	_____
	Received By:	_____	_____	_____
	Relinquished By:	_____	_____	_____
	Received at Lab By:	<u>[Signature]</u>	<u>12/20/22</u>	<u>1720</u>
Logged in By:	<u>[Signature]</u>	<u>12/20/22</u>	<u>0857</u>	

Customer: Montour, LLC
18 McMichael Road
Washingtonville, PA 17884

HAWKMTN LABS, INC.

201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321

Chain of Custody

PO: 684951
Contact: john.mccabe.iii@talenergy.com

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	SH	
Samples/COC/Analysis agree?	Y	N

Subject Line: Montour 2022 Surface Water Project
Work Order #: 2211-01379 Sample ID: SW FB
Sample 015: SW FB

Printed On: 11/29/2022
Printed By: HP
Approved By: W

Matrix: Non Potable Water

Pick up date:

Bottles:

- Plastic 250mL ALK Unpreserved
- 1 Amber Glass 250mL HCl SH 12-20-22
- 1 Amber Glass 250mL(Field Bl.) HCl
- Plastic 1L Unpreserved
- Plastic 250mL HNO3
- Plastic 250mL Dissolved Metals Filtered, HNO3
- Plastic 1L, Ra-226 HNO3
- Plastic 1L, Ra-228 HNO3
- Plastic 1L, TSS Unpreserved

Temp Upon Receipt QC-TEMPREC 5.5 C Tech SH

[Empty rectangular box]

Sampling Comments: Bottles Made By: SH Bottles Checked By: [Signature] Composite Sample: Start Time/Date: End Time/Date:

NOTES:	Flow Required - Y / N	SWL Required - Y/N	Date:	Time:
	Sampled By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>12:45</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received By:	<u>-</u>	<u>-</u>	<u>-</u>
	Relinquished By:	<u>-</u>	<u>-</u>	<u>-</u>
	Received at Lab By:	<u>[Signature]</u>	<u>12-20-22</u>	<u>14:15</u>
	Logged in By:	<u>[Signature]</u>	<u>12/20/22</u>	<u>15:03</u>

January 13, 2023

Ms. Amanda Paranac
HAWKMTN LABS INC
201 West Clay Avenue
Hazle Twp, PA 18202

RE: Project: 2211-1379
Pace Project No.: 30549130

Dear Ms. Paranac:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2022. 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 - Greensburg

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

Sincerely,



Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Amanda Paranac, HAWKMTN LABS INC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2211-1379

Pace Project No.: 30549130

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 #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2211-1379
Pace Project No.: 30549130

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30549130001	2211-1379-1	Water	12/20/22 09:40	12/21/22 16:53
30549130002	2211-1379-2	Water	12/20/22 09:40	12/21/22 16:53
30549130003	2211-1379-3	Water	12/20/22 10:19	12/21/22 16:53
30549130004	2211-1379-4	Water	12/20/22 10:52	12/21/22 16:53
30549130005	2211-1379-5	Water	12/20/22 11:22	12/21/22 16:53
30549130006	2211-1379-6	Water	12/20/22 11:55	12/21/22 16:53
30549130007	2211-1379-7	Water	12/20/22 12:37	12/21/22 16:53
30549130008	2211-1379-8	Water	12/20/22 12:37	12/21/22 16:53
30549130009	2211-1379-9	Water	12/19/22 15:11	12/21/22 16:53
30549130010	2211-1379-10	Water	12/19/22 14:40	12/21/22 16:53
30549130011	2211-1379-11	Water	12/19/22 13:22	12/21/22 16:53
30549130012	2211-1379-12	Water	12/19/22 12:49	12/21/22 16:53
30549130013	2211-1379-13	Water	12/19/22 13:51	12/21/22 16:53
30549130014	2211-1379-14	Water	12/20/22 12:38	12/21/22 16:53
30549130015	2211-1379-15	Water	12/20/22 12:45	12/21/22 16:53

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2211-1379
Pace Project No.: 30549130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30549130001	2211-1379-1	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130002	2211-1379-2	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130003	2211-1379-3	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130004	2211-1379-4	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130005	2211-1379-5	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130006	2211-1379-6	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130007	2211-1379-7	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130008	2211-1379-8	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130009	2211-1379-9	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130010	2211-1379-10	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130011	2211-1379-11	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130012	2211-1379-12	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30549130013	2211-1379-13	EPA 903.1	JDZ	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2211-1379

Pace Project No.: 30549130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30549130014	2211-1379-14	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
30549130015	2211-1379-15	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2211-1379

Pace Project No.: 30549130

Method: EPA 903.1

Description: 903.1 Radium 226

Client: HAWKMTN Labs. Inc.

Date: January 13, 2023

General Information:

15 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2211-1379

Pace Project No.: 30549130

Method: EPA 904.0

Description: 904.0 Radium 228

Client: HAWKMTN Labs. Inc.

Date: January 13, 2023

General Information:

15 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2211-1379
Pace Project No.: 30549130

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: HAWKMTN Labs. Inc.
Date: January 13, 2023

General Information:

15 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-1 Lab ID: 30549130001 Collected: 12/20/22 09:40 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.199 ± 0.277 (0.701) C:NA T:93%	pCi/L	01/11/23 16:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.903 ± 0.486 (0.883) C:71% T:87%	pCi/L	01/11/23 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.903 ± 0.763 (1.58)	pCi/L	01/12/23 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-2 Lab ID: 30549130002 Collected: 12/20/22 09:40 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.249 ± 0.260 (0.367) C:NA T:100%	pCi/L	01/11/23 16:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.740 ± 0.421 (0.782) C:77% T:95%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.989 ± 0.681 (1.15)	pCi/L	01/12/23 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-3 Lab ID: 30549130003 Collected: 12/20/22 10:19 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0579 ± 0.377 (0.759) C:NA T:89%	pCi/L	01/11/23 16:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.778 ± 0.507 (0.979) C:78% T:78%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.836 ± 0.884 (1.74)	pCi/L	01/12/23 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-4 Lab ID: 30549130004 Collected: 12/20/22 10:52 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0531 ± 0.275 (0.572) C:NA T:91%	pCi/L	01/11/23 16:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.226 ± 0.384 (0.838) C:73% T:83%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.279 ± 0.659 (1.41)	pCi/L	01/12/23 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Sample: 2211-1379-5 **Lab ID: 30549130005** Collected: 12/20/22 11:22 Received: 12/21/22 16:53 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.312 ± 0.434 (0.734) C:NA T:93%	pCi/L	01/11/23 16:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.593 ± 0.363 (0.667) C:78% T:85%	pCi/L	01/11/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.905 ± 0.797 (1.40)	pCi/L	01/12/23 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-6 Lab ID: 30549130006 Collected: 12/20/22 11:55 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.350 ± 0.355 (0.538) C:NA T:96%	pCi/L	01/11/23 16:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.186 ± 0.385 (0.850) C:70% T:83%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.536 ± 0.740 (1.39)	pCi/L	01/12/23 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Sample: 2211-1379-7 **Lab ID: 30549130007** Collected: 12/20/22 12:37 Received: 12/21/22 16:53 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.257 ± 0.303 (0.770) C:NA T:98%	pCi/L	01/11/23 16:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0150 ± 0.385 (0.904) C:67% T:79%	pCi/L	01/11/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.688 (1.67)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-8 Lab ID: 30549130008 Collected: 12/20/22 12:37 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.114 ± 0.316 (0.613) C:NA T:94%	pCi/L	01/11/23 16:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.261 ± 0.343 (0.729) C:77% T:78%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.375 ± 0.659 (1.34)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-9 Lab ID: 30549130009 Collected: 12/19/22 15:11 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.102 ± 0.401 (0.852) C:NA T:94%	pCi/L	01/11/23 16:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.395 ± 0.396 (0.814) C:72% T:80%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.395 ± 0.797 (1.67)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-10 Lab ID: 30549130010 Collected: 12/19/22 14:40 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.465 ± 0.364 (0.428) C:NA T:84%	pCi/L	01/11/23 16:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.319 ± 0.407 (0.864) C:73% T:79%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.784 ± 0.771 (1.29)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-11 Lab ID: 30549130011 Collected: 12/19/22 13:22 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.158 ± 0.536 (1.03) C:NA T:71%	pCi/L	01/11/23 16:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.09 ± 0.695 (1.33) C:76% T:58%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.25 ± 1.23 (2.36)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Sample: 2211-1379-12 **Lab ID: 30549130012** Collected: 12/19/22 12:49 Received: 12/21/22 16:53 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0613 ± 0.280 (0.570) C:NA T:90%	pCi/L	01/11/23 16:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.02 ± 0.507 (0.895) C:72% T:84%	pCi/L	01/11/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.02 ± 0.787 (1.47)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-13 Lab ID: 30549130013 Collected: 12/19/22 13:51 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.543 ± 0.430 (0.584) C:NA T:94%	pCi/L	01/11/23 16:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.02 ± 0.524 (0.935) C:67% T:88%	pCi/L	01/11/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.56 ± 0.954 (1.52)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-14 Lab ID: 30549130014 Collected: 12/20/22 12:38 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.114 ± 0.317 (0.748) C:NA T:101%	pCi/L	01/11/23 16:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.841 ± 0.501 (0.943) C:68% T:89%	pCi/L	01/11/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.841 ± 0.818 (1.69)	pCi/L	01/12/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 2211-1379-15 Lab ID: 30549130015 Collected: 12/20/22 12:45 Received: 12/21/22 16:53 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0540 ± 0.280 (0.649) C:NA T:95%	pCi/L	01/11/23 16:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.894 ± 0.452 (0.797) C:72% T:90%	pCi/L	01/11/23 15:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.894 ± 0.732 (1.45)	pCi/L	01/12/23 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2211-1379

Pace Project No.: 30549130

QC Batch: 556157

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: 30549130001, 30549130002, 30549130003, 30549130004, 30549130005, 30549130006, 30549130007, 30549130008, 30549130009, 30549130010, 30549130011, 30549130012, 30549130013, 30549130014, 30549130015

METHOD BLANK: 2702087

Matrix: Water

Associated Lab Samples: 30549130001, 30549130002, 30549130003, 30549130004, 30549130005, 30549130006, 30549130007, 30549130008, 30549130009, 30549130010, 30549130011, 30549130012, 30549130013, 30549130014, 30549130015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.303 ± 0.320 (0.661) C:70% T:92%	pCi/L	01/11/23 15:05	

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: 2211-1379

Pace Project No.: 30549130

QC Batch: 556156

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: 30549130001, 30549130002, 30549130003, 30549130004, 30549130005, 30549130006, 30549130007, 30549130008, 30549130009, 30549130010, 30549130011, 30549130012, 30549130013, 30549130014, 30549130015

METHOD BLANK: 2702086

Matrix: Water

Associated Lab Samples: 30549130001, 30549130002, 30549130003, 30549130004, 30549130005, 30549130006, 30549130007, 30549130008, 30549130009, 30549130010, 30549130011, 30549130012, 30549130013, 30549130014, 30549130015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0431 ± 0.254 (0.565) C:NA T:93%	pCi/L	01/11/23 16:20	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2211-1379
Pace Project No.: 30549130

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

REPORT OF LABORATORY ANALYSIS

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HAWK MTN LABS INC
 201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-8011 Fax: (570) 455-6321
 www.hawkmtnlabs.com

**CHAIN OF CUSTODY
 SAMPLE SUBMISSION RECORD**

DIRECTIONS: Ink only; Complete legibly; Gray areas are for lab use only; Incomplete, damaged, or illegible COC will delay your sample(s)

CLIENT ID: _____
 THERMOMETER ID: _____
 COMPLETED BY: _____

Customer: **HAWK MTN LABS**

Pretest: **TO: PACE-PA**

Report To: _____
 Invoice To: _____
 PO# _____

Data Delivery:
 1 Day
 3 Day
 5 Day
 Standard (10)
 Other: _____
 *Surcharge applies

City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____

Container Size:
 40 mL
 100 mL
 250 mL

Matrix:
 SQ = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SOLM = Solid/Chemical Waste
 OT = Other

Container Type:
 AG = Amber Glass
 OG = Clear Glass
 PL = Plastic

Comments:
SAMPLES FROM PA

Bacterial Samples Accepted:
 Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	DATE SAMPLED	TIME SAMPLED	MATRIX
2211-1379-1		12/20/22	0940	NPW
2211-1379-2		12/20/22	0940	NPW
2211-1379-3		12/20/22	1019	NPW
2211-1379-4		12/20/22	1052	NPW
2211-1379-5		12/20/22	1122	NPW
2211-1379-6		12/20/22	1155	NPW

Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED	TEMPERATURE (°C)
PL				
IL				
HNO3				
			KADIUM 224	
			RADIUM 228	
			TO TRL	
			CALCULATED	

Enter Number of Containers Per Analysis

1	1	001
1	1	002
1	1	003
1	1	004
1	1	005
1	1	006

SAMPLED BY (PRINT): **HAWK MTN LABS** SIGNED BY (SIGN): **HML**

RECEIVED BY: **JAC** DATE: **12/21/22** TIME: **0535**

RECEIVED AT LAB: **Andon #8** DATE: **12/21/22** TIME: **12:07**

LOGGED IN BY: **Reynolds** DATE: **12/21/22** TIME: **1653**

Received on ice? Y/N
 Samples intact? Y/N
 COC intact and complete? Y/N
 Correct Containers? Y/N
 Adequate Samples? Y/N
 Volatiles: Headspace Present? Y/N
 Correct Preserve? Y/N
 Completed by: _____

Received From Amount: \$ _____
 Paid by: Cash / Credit Card / Check # _____

DFP Drinking Water ONLY
WO#: 30549130

Barcode:

FMA _____ NPDES # _____
 PWS # _____ Landfill, Water
 Department of Health
 Underground Storage Tank
 Oil and Gas
 Bureau of Mining
 Other _____

Are these samples for permit reporting purposes? Yes ___ No ___
 If Yes, which agency? _____

HAWK MTN LABS INC
 201 West Clay Avenue / Hazle Township, PA 18202
 Phone: (570) 455-6011 Fax: (570) 455-6321
 www.hawkmtnlabs.com

**CHAIN OF CUSTODY
 SAMPLE SUBMISSION RECORD**

DIRECTIONS: Ink only; Complete legibly; Gray areas are for lab use only; Incomplete, damaged, or illegible COC will delay your sample(s)

CLIENT ID: _____
 THERMOMETER ID: _____
 COMPLETED BY: _____

Customer: **HAWK MTN LABS**
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____
 Email: _____ Fax: _____

Project: **TO: PAE-PA**
 Report To: _____
 Invoice To: _____
 PO# _____

Data Delivery:
 Fax
 Email
 Web
 Mail
 Turn Around Time:
 1 Day *
 3 Day *
 5 Day *
 Standard (10)
 Other: _____
 *surcharge applies

Container Size:
 40 mL 500 mL
 100 mL 1 Liter
 250 mL 1/2 gal

Container Type:
 AG = Amber Glass
 CG = Clear Glass
 PL = Plastic

Matrix:
 SO = Soil
 DW = Drinking Water
 NPW = Non Potable Water
 SCM = Solid Chemical Waste
 OT = Other

Comments:
SAMPLES FROM PA

Bacterial Samples Accepted:
 Monday - Thursday 8 a.m. - 4 p.m.
 Friday 8 a.m. - 12 p.m.

Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED
PL	→		
IL	→		
ANO3	→		

HML WORK ORDER NUMBER	SAMPLE DESCRIPTION OR LOCATION	G-GRAB	G-COMPOSITE	DATE SAMPLED	TIME SAMPLED	MATRIX
	2211-1379-13	GT		12/19/22	1351	NPW
	2211-1379-14	GT		12/20/22	1238	NPW
	2211-1379-15	GT		12/20/22	1246	NPW

Container Type	Container Size	Preservative	ANALYSES / METHOD REQUESTED	Enter Number of Containers Per Analysis	TEMPERATURE (°C)
RADIUM 224	→			1	013
RADIUM 228	→			1	014
TOTAL RADIUM	→			1	015
CHLORIDE	→				

SAMPLED BY (PRINT): HAWK MTN LABS
RECEIVED BY: [Signature]
RECEIVED AT LAB: [Signature]
DATE/TIME RECEIVED: 12-21-22 12:07
COG REVIEWED: SE
DEP Drinking Water ONLY
NO#: 30549130
Due Date: 01/13/23
CLIENT: HAWK

Are these samples for permit reporting purposes? Yes ___ No ___
IF Yes, which agency?
 FHA ___
 NPDES ___
 PWS # ___
 Landfill, Water ___
 Landfill, Solid Waste ___
 Department of Health ___
 Underground Storage Tank ___
 Oil and Gas ___
 Bureau of Mining ___
 Other ___

DC#_Title: ENV-FRM-GBUR-0088 v02_Sample Condition Upon Receipt-
Pittsburgh



Effective Date: 10/03/2022

WO#: 30549130

Client Name: Hawk M&N

PM: NMY Due Date: 01/13/23
CLIENT: HAWK

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: Drop off

Examined By	<u>PS</u>
Labeled By	<u>PS</u>
Temped By	<u>PS</u>

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Thermometer Used: 16 Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp 2.5 °C Correction Factor: +0.2 °C Final Temp: 2.7 °C
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				<u>10DZZZ1</u>	
Chain of Custody Present	/				
Chain of Custody Filled Out: -Were client corrections present on COC	/				
Chain of Custody Relinquished	/				
Sampler Name & Signature on COC:	/				
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/				
Samples Arrived within Hold Time:	/				
Short Hold Time Analysis (<72hr remaining):		/			
Rush Turn Around Time Requested:		/			
Sufficient Volume:	/				
Correct Containers Used: -Pace Containers Used	/				
Containers Intact:	/				
Orthophosphate field filtered:			/		
Hex Cr Aqueous samples field filtered:			/		
Organic Samples checked for dechlorination			/		
Filtered volume received for dissolved tests:			/		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/				
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u>	Date/Time of Preservation
				Lot# of added Preservative	
Headspace in VOA Vials (>6mm):			/		
Trip Blank Present:		/			
Trip Blank Custody Seals Present		/			
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed <u>PS</u>	Date: <u>12/22/22</u> Survey Meter SN: <u>1563</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Pace Greensburg Lab -Sample Container Count



Profile Number 1649

* 15 Samples

Client _____
Site 2211-1379

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WG9U	WGKU	ZPLC
1	WT											N																
2												N																
3												N																
4												N																
5												N																
6												N																
7												N																
8												N																
9												N																
10												N																
11												N																
12												N																

NO#: 30549130

PM: NMY Due Date: 01/13/23

CLIENT: HAWK

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unprnserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass Na Thiosulfate
BG1U	1L clear glass unprnserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unprnserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WG9U	4oz wide jar unprnserved
BG2U	500mL clear glass unprnserved
AG2U	500mL amber glass unprnserved
WGKU	8oz wide jar unprnserved

Plastic / Misc.	
GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unprnserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unprnserved
BP3C	250mL plastic NaOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unprnserved
EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag
WT	Water
SL	Solid
OL	Non-aqueous liquid
WIP	Wipe