

Date of Issue: 08/01/2023 06:57:56

DEP Bureau of Laboratories - Harrisburg P.O. Box 1467 2575 Interstate Drive Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059 PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For Oil And Gas Mgmt

Sample ID: 9548 005 Date Collected: 07/24/2023 10:38:00 AM Lab Sample ID: 12023012034 Status: Completed

Name of Sample Collector: Alan J Wolf

Date Received: 07/25/2023

County: Venango State:

Municipality: Sugarcreek Boro

SHAFER RUN SPRING CISTERN

RENO PA.

Sample Medium: Water
Sample Medium Type: Water

Location: Shafer Run Spring Cistern

Reason: Complaint

Project: NOT INDICATED

Standard Anlysis: 946

Matrix: Water

Legal Seal:	1206082	Intact:	Yes
Legal Seal:	1206084	Intact:	Yes
Legal Seal:	1206083	Intact:	Yes

Stream Condition:

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Test Co	des / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
00410	ALKALINITY AS CaCO3 @ pH 4.5	46.4 mg/L	07/25/2023 01:58 PM	JAHOGUE	SM 2320B
** Comm	nent ** Sample bottle had headspace present before analysis				
01105H	ALUMINUM, TOTAL (WATER & WASTE) ICPMS	67.900 ug/L	07/26/2023 10:53 AM	SCHOY	EPA 200.8
01002H	ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	07/26/2023 10:53 AM	SCHOY	EPA 200.8
01007M	BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.032 mg/L	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
71870	BROMIDE BY ION CHROMATOGRAPHY	<0.2 mg/L (U)	07/25/2023 12:53 PM	TVOROBEYCH	EPA 300.0
00916A	CALCIUM, TOTAL (WATER & WASTE) BY ICP	16.600 mg/L	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
00900	HARDNESS, TOTAL (CALCULATED)	65 mg/L	07/27/2023 12:07 PM	CREITMEYER	SM 2340 B
** Comment ** Accredited by NJ only - accreditation not available from PA					
01045M	IRON, TOTAL IN MG/L (WATER & WASTE) BY ICP	<0.100 mg/L (U)	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
01132A	LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
00927A	MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	5.79 mg/L	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
01055M	MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	<0.010 mg/L (U)	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
00403 pH, Lab (Electrometric)		6.1 pH units	07/25/2023 01:58 PM	JAHOGUE	SM 4500-H+ B
** Comment ** Holding time exceeded					
00937A	POTASSIUM, TOTAL (WATER & WASTE) BY ICP	1.96 mg/L	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
01147H	SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	07/26/2023 10:53 AM	SCHOY	EPA 200.8
00929A	SODIUM, TOTAL (WATER & WASTE) BY ICP	11.90 mg/L	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
00095	SPECIFIC CONDUCTIVITY @ 25.0 C	176.70 umhos/cm	07/25/2023 04:56 PM	MTUZINSKI	SM 2510B
01082M	STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.081 mg/L	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7
00403T	Temperature at which pH is measured	19.48 C	07/25/2023 01:58 PM	JAHOGUE	SM 4500-H+ B
00940	Total Chloride-Ion Chromatograph	16.51 mg/L	07/25/2023 12:53 PM	TVOROBEYCH	EPA 300.0
70300	TOTAL DISSOLVED SOLIDS @ 180C	94 mg/L	07/25/2023 01:50 PM	JEFFMCCALL	SM 2540C-15
00945	Total Sulfate-Ion Chromatograph	11.61 mg/L	07/25/2023 12:53 PM	TVOROBEYCH	EPA 300.0
00530	TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	07/25/2023 10:34 AM	CLONTZ	USGS I-3765-85
82079	TURBIDITY, NEPHELMETRIC	<1 NTU (U)	07/25/2023 03:15 PM	JAHOGUE	EPA 180.1
01092A	ZINC, TOTAL (WATER & WASTE) BY ICP	<30.0 ug/L (U)	07/27/2023 12:07 PM	CREITMEYER	EPA 200.7

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2016 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

Jennifer Fesler, Technical Director, Bureau of Laboratories

^{*} denotes tests that the laboratory is not accredited for

U - Indicates analysis was performed for the test but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, reported between Reporting Limit (RL) and Minimum Detection Limit (MDL).

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