



Date of Issue: 09/07/2023 04:21:13

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: 9550 020

Date Collected: 08/03/2023 10:15:00 AM

Lab Sample ID: I2023012653

Status: Completed

Name of Sample Collector: Alicia M Furey

Date Received: 08/04/2023

County: Venango

State:

Municipality: Sugarcreek Boro

RENO BELLOWS SPRING

RENO PA.

Sample Medium: Ground Water

Sample Medium Type: Water

Location: Bellows Spring 4

Reason: Complaint

Project: NOT INDICATED

Standard Anlysis: 946

Matrix: Water

Field Tests		
pH	5.15	pH units
Specific Conductance	543	umhos/cm

Stream Condition:

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Appearance: clear, no odor

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
00410 ALKALINITY AS CaCO3 @ pH 4.5	39.2 mg/L	08/07/2023 03:03 PM	JAHOUE	SM 2320B
** Comment ** Sample bottle had headspace present before analysis				
Result is an estimateOut of holding time to re-run				
01105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	311.500 ug/L	08/17/2023 10:48 AM	ELEEDY	EPA 200.8
01002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	08/10/2023 01:03 PM	ELEEDY	EPA 200.8
01007M BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.167 mg/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
71870 BROMIDE BY ION CHROMATOGRAPHY	1.305 mg/L	08/04/2023 10:33 PM	TVOROBAYCH	EPA 300.0
00916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	18.530 mg/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
00900 HARDNESS, TOTAL (CALCULATED)	71 mg/L	08/07/2023 01:56 PM	CWINDLE	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)	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
01132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	6.08 mg/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
01055M MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	0.093 mg/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
00403 pH, Lab (Electrometric)	5.2 pH units	08/07/2023 03:03 PM	JAHOUE	SM 4500-H+ B
** Comment ** Holding time exceeded				
result is estimateout of holding time to re-run				
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	1.15 mg/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<20.000 ug/L	08/17/2023 10:48 AM	ELEEDY	EPA 200.8
** Comment ** Diluted Before Analysis				
DETECTION LIMIT NOT MET - INTERFERENCE				
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	62.44 mg/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	516.00 umhos/cm	08/04/2023 03:51 PM	MTUZINSKI	SM 2510B
01082M STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.294 mg/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7
00403T Temperature at which pH is measured	21.26 C	08/07/2023 03:03 PM	JAHOUE	SM 4500-H+ B
00940 Total Chloride-Ion Chromatograph	147.42 mg/L	08/09/2023 02:54 AM	TVOROBAYCH	EPA 300.0
70300 TOTAL DISSOLVED SOLIDS @ 180C	324 mg/L	08/04/2023 12:08 PM	JRONEMUS	SM 2540C-15
00945 Total Sulfate-Ion Chromatograph	6.30 mg/L	08/04/2023 10:33 PM	TVOROBAYCH	EPA 300.0
00530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	08/07/2023 09:01 AM	CLONTZ	USGS I-3765-85
82079 TURBIDITY, NEPHELMETRIC	<1 NTU (U)	08/04/2023 03:00 PM	JAHOUE	EPA 180.1
01092A ZINC, TOTAL (WATER & WASTE) BY ICP	32.00 ug/L	08/07/2023 01:56 PM	CWINDLE	EPA 200.7

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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.

* 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).

Jennifer Fesler, Technical Director, Bureau of Laboratories