

Date of Issue: 12/22/2023 04:03:29

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: 12/04/2023 10:33:00 AM Lab Sample ID: 12023019727 Status: Completed

Name of Sample Collector: Alan J Wolf

Date Received: 12/05/2023

County: Venango State:

Municipality: Sugarcreek Boro

BELLOWS SPRING

RENO PA.

Sample Medium: Water
Sample Medium Type: Water

Location: Bellows Spring -Composite

Reason: Complaint

Project: NOT INDICATED

Standard Anlysis: 946

Matrix: Water

Legal Seal:	1206267	Intact:	Yes
Legal Seal:	1206269	Intact:	Yes
Legal Seal:	1206268	Intact:	Yes

Stream Condition:

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Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method		
00410 ALKALINITY AS CaCO3 @ pH 4.5	0.0 mg/L	12/06/2023 01:33 PM	JAHOGUE	SM 2320B		
** Comment ** Sample bottle had headspace present before analysis						
01105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	446.500 ug/L	12/12/2023 11:41 AM	ELEEDY	EPA 200.8		
01002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	12/07/2023 11:20 AM	ELEEDY	EPA 200.8		
01007M BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.172 mg/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
71870 BROMIDE BY ION CHROMATOGRAPHY	1.346 mg/L	12/05/2023 04:51 PM	TVOROBEYCH	EPA 300.0		
00916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	18.200 mg/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
00900 HARDNESS, TOTAL (CALCULATED)	72 mg/L	12/06/2023 01:10 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)	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
01132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	6.32 mg/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
01055M MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	0.185 mg/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
00403 pH, Lab (Electrometric)	5.0 pH units	12/06/2023 01:33 PM	JAHOGUE	SM 4500-H+ B		
** Comment ** Holding time exceeded						
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	1.33 mg/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	4.870 ug/L	12/07/2023 11:20 AM	ELEEDY	EPA 200.8		
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	63.10 mg/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	520.00 umhos/cm	12/13/2023 01:11 PM	MTUZINSKI	SM 2510B		
** Comment ** Sample temperature exceeded due to power failure at the lab.						
01082M STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.283 mg/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		
00403T Temperature at which pH is measured	20.92 C	12/06/2023 01:33 PM	JAHOGUE	SM 4500-H+ B		
00940 Total Chloride-Ion Chromatograph	144.87 mg/L	12/21/2023 07:20 AM	TVOROBEYCH	EPA 300.0		
70300 TOTAL DISSOLVED SOLIDS @ 180C	306 mg/L	12/06/2023 08:50 AM	JRONEMUS	SM 2540C-15		
00945 Total Sulfate-Ion Chromatograph	6.03 mg/L	12/05/2023 04:51 PM	TVOROBEYCH	EPA 300.0		
00530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	12/05/2023 11:32 AM	CLONTZ	USGS I-3765-85		
82079 TURBIDITY, NEPHELMETRIC	<1 NTU (U)	12/05/2023 11:58 AM	JAHOGUE	EPA 180.1		
ANSWER RECHECKED BY ANALYST						
01092A ZINC, TOTAL (WATER & WASTE) BY ICP	43.00 ug/L	12/06/2023 01:10 PM	CREITMEYER	EPA 200.7		

Analytical Report For Oil And Gas Mgmt

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