

Date of Issue: 10/05/2023 04:12:07

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 004 Date Collected: 09/18/2023 10:25:00 AM Lab Sample ID: 12023015485 Status: Completed

Name of Sample Collector: Alan J Wolf

Date Received: 09/19/2023

County: Venango State:

Municipality: Sugarcreek Boro

BELLOWS SPRING

RENO PA.

Sample Medium: Water
Sample Medium Type: Water

Location: Bellows Spring -BS4

Reason: Complaint

Project: NOT INDICATED

Standard Anlysis: 946

Matrix: Water

Legal Seal:	1206231	Intact:	Yes
Legal Seal:	1206233	Intact:	Yes
Legal Seal:	1206232	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	2.4 mg/L	09/19/2023 11:14 AM	JAHOGUE	SM 2320B	
** Comm	** Comment ** Sample bottle had headspace present before analysis					
01105H	ALUMINUM, TOTAL (WATER & WASTE) ICPMS	56.500 ug/L	09/21/2023 11:10 AM	ELEEDY	EPA 200.8	
01002H	ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	09/21/2023 11:10 AM	ELEEDY	EPA 200.8	
01007M	BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.079 mg/L	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
71870	BROMIDE BY ION CHROMATOGRAPHY	0.528 mg/L	09/19/2023 08:00 PM	TVOROBEYCH	EPA 300.0	
00916A	CALCIUM, TOTAL (WATER & WASTE) BY ICP	9.009 mg/L	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
00900	HARDNESS, TOTAL (CALCULATED)	37 mg/L	09/20/2023 10:46 AM	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)	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
01132A	LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
00927A	MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	3.50 mg/L	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
01055M	MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	0.034 mg/L	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
00403 pH, Lab (Electrometric)		5.7 pH units	09/19/2023 11:14 AM	JAHOGUE	SM 4500-H+ B	
** Comm	nent ** Holding time exceeded					
00937A	POTASSIUM, TOTAL (WATER & WASTE) BY ICP	<1.00 mg/L (U)	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
01147H	SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	09/21/2023 11:10 AM	ELEEDY	EPA 200.8	
00929A	SODIUM, TOTAL (WATER & WASTE) BY ICP	26.87 mg/L	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
00095	SPECIFIC CONDUCTIVITY @ 25.0 C	229.00 umhos/cm	09/25/2023 04:43 PM	MTUZINSKI	SM 2510B	
01082M	STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.131 mg/L	09/20/2023 10:46 AM	CWINDLE	EPA 200.7	
00403T	Temperature at which pH is measured	18.68 C	09/19/2023 11:14 AM	JAHOGUE	SM 4500-H+ B	
00940	Total Chloride-Ion Chromatograph	58.61 mg/L	10/03/2023 03:55 PM	TVOROBEYCH	EPA 300.0	
70300	TOTAL DISSOLVED SOLIDS @ 180C	152 mg/L	09/19/2023 09:50 AM	JRONEMUS	SM 2540C-15	
00945	Total Sulfate-Ion Chromatograph	6.53 mg/L	09/19/2023 08:00 PM	TVOROBEYCH	EPA 300.0	
00530	TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	09/19/2023 08:53 AM	CLONTZ	USGS I-3765-85	
82079	TURBIDITY, NEPHELMETRIC	<1 NTU (U)	09/19/2023 11:07 AM	JAHOGUE	EPA 180.1	
01092A	ZINC, TOTAL (WATER & WASTE) BY ICP	<30.0 ug/L (U)	09/20/2023 10:46 AM	CWINDLE	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.

* 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

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