

Date of Issue: 08/29/2023 04:02:54

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 09:55:00 AM Lab Sample ID: 12023013931 Status: Completed State:			
Sample I	<b>D:</b> 9563 004	Date Collected: 08/22			Status: Completed		
Na	ame of Sample Collector:	Lucas L Eichner					
	Date Received:	08/23/2023					
	County:	Venango		State:			
	Municipality:	Sugarcreek Boro					
		BELLOWS SPRING					
		RENO PA.					
	Sample Medium:	Water					
	Sample Medium Type:						
	Location:	Bellows Spring -BS4					
		Complaint					
	-	NOT INDICATED					
	Standard Anlysis:	946					
	Matrix:	Water					
Legal Seal:	1206115	Intact:	Yes				
Legal Seal:	I206117	Intact:	Yes				
Legal Seal:	1206116	Intact:	Yes				
	Stream Condition:						

## Analytical Report For Oil And Gas Mgmt

Sample ID: 9563 004 Date Collected: 08/22	2/2023 09:55:00 AM	Lab Sample ID: 12023013931	Status: Completed	
Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
0410 ALKALINITY AS CaCO3 @ pH 4.5	3.2 mg/L	08/23/2023 03:51 PM	JAHOGUE	SM 2320B
* Comment ** Sample bottle had headspace present before analysis				
1105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	105.000 ug/L	08/24/2023 12:20 PM	SCHOY	EPA 200.8
1002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	08/24/2023 12:20 PM	SCHOY	EPA 200.8
1007M BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.100 mg/L	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
1870 BROMIDE BY ION CHROMATOGRAPHY	0.763 mg/L	08/23/2023 03:42 PM	TVOROBEYCH	EPA 300.0
0916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	10.900 mg/L	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
00900 HARDNESS, TOTAL (CALCULATED)	43 mg/L	08/24/2023 11:10 AM	CREITMEYER	SM 2340 B
* Comment ** Accredited by NJ only - accreditation not available from PA				
1045M IRON, TOTAL IN MG/L (WATER & WASTE) BY ICP	<0.100 mg/L (U)	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
1132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	3.83 mg/L	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
01055M MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	0.054 mg/L	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
00403 pH, Lab (Electrometric)	5.6 pH units	08/23/2023 03:51 PM	JAHOGUE	SM 4500-H+ B
* Comment ** Holding time exceeded				
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	<1.00 mg/L (U)	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/24/2023 12:20 PM	SCHOY	EPA 200.8
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	35.10 mg/L	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	311.00 umhos/cm	08/24/2023 06:33 PM	MTUZINSKI	SM 2510B
1082M STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.167 mg/L	08/24/2023 11:10 AM	CREITMEYER	EPA 200.7
00403T Temperature at which pH is measured	18.50 C	08/23/2023 03:51 PM	JAHOGUE	SM 4500-H+ B
00940 Total Chloride-Ion Chromatograph	81.35 mg/L	08/23/2023 07:38 PM	TVOROBEYCH	EPA 300.0
70300 TOTAL DISSOLVED SOLIDS @ 180C	208 mg/L	08/23/2023 10:43 AM	JRONEMUS	SM 2540C-15
0945 Total Sulfate-Ion Chromatograph	6.53 mg/L	08/23/2023 03:42 PM	TVOROBEYCH	EPA 300.0
0530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	08/24/2023 09:19 AM	CLONTZ	USGS I-3765-85
2079 TURBIDITY, NEPHELMETRIC	<1 NTU (U)	08/23/2023 03:01 PM	JAHOGUE	EPA 180.1
1092A ZINC, TOTAL (WATER & WASTE) BY ICP	<30.0 ug/L (U)	08/24/2023 11:10 AM	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. \* 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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Date Collected: 08/22/2023 09:55:00 AM

Lab Sample ID: 12023013931

Status: Completed