



Date of Issue: 08/01/2023 06:57:04

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 001

Date Collected: 07/21/2023 08:26:00 AM

Lab Sample ID: I2023012003

Status: Completed

Name of Sample Collector: Alan J Wolf

Date Received: 07/24/2023

County: NOT INDICATED

Municipality: NOT INDICATED

Location: NOT INDICATED

Reason: Complaint

Project: NOT INDICATED

Standard Anlysis: 946

Matrix: Water

State:

## Discharge from Containment

Legal Seal:	I206202	Intact:	Yes
Legal Seal:	I206204	Intact:	Yes
Legal Seal:	I206203	Intact:	Yes

Stream Condition:

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
00410 ALKALINITY AS CaCO3 @ pH 4.5 ** Comment ** Sample bottle had headspace present before analysis	68.0 mg/L	07/25/2023 03:37 PM	JAHOQUE	SM 2320B
01105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS ** Comment ** Detection Limit Not Met - Interference	<300.000 ug/L	07/27/2023 02:24 PM	SCHOY	EPA 200.8
01002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<60.000 ug/L	07/27/2023 03:00 PM	SCHOY	EPA 200.8

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** Comment ** Possible Matrix Interference				
DILUTED BEFORE ANALYSIS. DETECTION LIMIT NOT MET - INTERFERENCE				
01007M BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	21.300 mg/L	07/28/2023 11:13 AM	CREITMEYER	EPA 200.7
71870 BROMIDE BY ION CHROMATOGRAPHY	159.540 mg/L	07/25/2023 02:36 PM	TVOROBAYCH	EPA 300.0
00916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	2259.000 mg/L	07/28/2023 11:13 AM	CREITMEYER	EPA 200.7
00900 HARDNESS, TOTAL (CALCULATED)	7440 mg/L	07/28/2023 11:13 AM	CREITMEYER	SM 2340 B
** Comment ** Accredited by NJ only - accreditation not available from PA				
01045M IRON, TOTAL IN MG/L (WATER & WASTE) BY ICP	6.930 mg/L	07/27/2023 11:13 AM	CREITMEYER	EPA 200.7
01132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	568.00 ug/L	07/27/2023 11:13 AM	CREITMEYER	EPA 200.7
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	435.00 mg/L	07/28/2023 11:13 AM	CREITMEYER	EPA 200.7
01055M MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	1.920 mg/L	07/27/2023 11:13 AM	CREITMEYER	EPA 200.7
00403 pH, Lab (Electrometric)	6.0 pH units	07/25/2023 03:37 PM	JAHOUE	SM 4500-H+ B
** Comment ** Holding time exceeded				
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	36.50 mg/L	07/27/2023 11:13 AM	CREITMEYER	EPA 200.7
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<80.000 ug/L	07/27/2023 03:00 PM	SCHOY	EPA 200.8
** Comment ** Possible Matrix Interference				
DILUTED BEFORE ANALYSIS. DETECTION LIMIT NOT MET - INTERFERENCE				
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	8871.00 mg/L	07/28/2023 11:13 AM	CREITMEYER	EPA 200.7
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	>12890.00 umhos/cm	07/25/2023 04:24 PM	MTUZINSKI	SM 2510B
01082M STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	43.100 mg/L	07/28/2023 11:13 AM	CREITMEYER	EPA 200.7
00403T Temperature at which pH is measured	18.89 C	07/25/2023 03:37 PM	JAHOUE	SM 4500-H+ B
00940 Total Chloride-Ion Chromatograph	18165.20 mg/L	07/25/2023 02:19 PM	TVOROBAYCH	EPA 300.0
70300 TOTAL DISSOLVED SOLIDS @ 180C	32420 mg/L	07/25/2023 01:50 PM	JEFFMCCALL	SM 2540C-15
00945 Total Sulfate-Ion Chromatograph	16.50 mg/L	07/25/2023 02:53 PM	TVOROBAYCH	EPA 300.0
00530 TOTAL SUSPENDED SOLIDS	130 mg/L	07/25/2023 10:32 AM	CLONTZ	USGS I-3765-85
** Comment ** Standard out of range				
82079 TURBIDITY, NEPHELMETRIC	12.10 NTU	07/24/2023 11:24 AM	JAHOUE	EPA 180.1
Holding time exceeded				
01092A ZINC, TOTAL (WATER & WASTE) BY ICP	<30.0 ug/L (U)	07/27/2023 11:13 AM	CREITMEYER	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