



Date of Issue: 08/23/2023 04:05:23

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: 9563 004

Date Collected: 08/14/2023 10:03:00 AM

Lab Sample ID: I2023013343

Status: Completed

Name of Sample Collector: Lucas L Eichner

Date Received: 08/15/2023

County: Venango

State:

Municipality: Sugarcreek Boro

BELLOWS SPRING CISTERN
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:	I206100	Intact:	Yes
Legal Seal:	I206102	Intact:	Yes
Legal Seal:	I206100	Intact:	Yes
Legal Seal:	I206101	Intact:	Yes
Legal Seal:	I206102	Intact:	Yes
Legal Seal:	I206101	Intact:	Yes

Stream Condition:

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Status: Completed

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	1.0 mg/L	08/15/2023 01:44 PM	JAHOQUE	SM 2320B
00410 ALKALINITY AS CaCO3 @ pH 4.5 ** Comment ** Sample bottle had headspace present before analysis	1.0 mg/L	08/15/2023 01:44 PM	JAHOQUE	SM 2320B
01105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	123.000 ug/L	08/17/2023 11:51 AM	ELEEDY	EPA 200.8
01105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	123.000 ug/L	08/17/2023 11:51 AM	ELEEDY	EPA 200.8
01002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	08/17/2023 11:51 AM	ELEEDY	EPA 200.8
01002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	08/17/2023 11:51 AM	ELEEDY	EPA 200.8
01007M BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.102 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01007M BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.102 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
71870 BROMIDE BY ION CHROMATOGRAPHY	0.746 mg/L	08/15/2023 09:31 PM	TVOROBAYCH	EPA 300.0
71870 BROMIDE BY ION CHROMATOGRAPHY	0.746 mg/L	08/15/2023 09:31 PM	TVOROBAYCH	EPA 300.0
00916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	11.300 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	11.300 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00900 HARDNESS, TOTAL (CALCULATED) ** Comment ** Accredited by NJ only - accreditation not available from PA	45 mg/L	08/16/2023 11:05 AM	CREITMEYER	SM 2340 B
00900 HARDNESS, TOTAL (CALCULATED) ** Comment ** Accredited by NJ only - accreditation not available from PA	45 mg/L	08/16/2023 11:05 AM	CREITMEYER	SM 2340 B
01045M IRON, TOTAL IN MG/L (WATER & WASTE) BY ICP	<0.100 mg/L (U)	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01045M IRON, TOTAL IN MG/L (WATER & WASTE) BY ICP	<0.100 mg/L (U)	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	4.05 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	4.05 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01055M MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	0.054 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01055M MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	0.054 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00403 pH, Lab (Electrometric) ** Comment ** Holding time exceeded	5.5 pH units	08/15/2023 01:44 PM	JAHOQUE	SM 4500-H+ B
00403 pH, Lab (Electrometric) ** Comment ** Holding time exceeded	5.5 pH units	08/15/2023 01:44 PM	JAHOQUE	SM 4500-H+ B
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	1.06 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	1.06 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7

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Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/17/2023 11:51 AM	ELEEDY	EPA 200.8
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/17/2023 11:51 AM	ELEEDY	EPA 200.8
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	36.80 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	36.80 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	315.00 umhos/cm	08/18/2023 02:45 PM	JAHOUE	SM 2510B
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	315.00 umhos/cm	08/18/2023 02:45 PM	JAHOUE	SM 2510B
01082M STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.174 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01082M STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.174 mg/L	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
00403T Temperature at which pH is measured	21.60 C	08/15/2023 01:44 PM	JAHOUE	SM 4500-H+ B
00403T Temperature at which pH is measured	21.60 C	08/15/2023 01:44 PM	JAHOUE	SM 4500-H+ B
00940 Total Chloride-Ion Chromatograph	76.81 mg/L	08/17/2023 11:54 PM	TVOROBAYCH	EPA 300.0
00940 Total Chloride-Ion Chromatograph	76.81 mg/L	08/17/2023 11:54 PM	TVOROBAYCH	EPA 300.0
70300 TOTAL DISSOLVED SOLIDS @ 180C	192 mg/L	08/15/2023 10:50 AM	JRONEMUS	SM 2540C-15
70300 TOTAL DISSOLVED SOLIDS @ 180C	192 mg/L	08/15/2023 10:50 AM	JRONEMUS	SM 2540C-15
00945 Total Sulfate-Ion Chromatograph	6.67 mg/L	08/15/2023 09:31 PM	TVOROBAYCH	EPA 300.0
00945 Total Sulfate-Ion Chromatograph	6.67 mg/L	08/15/2023 09:31 PM	TVOROBAYCH	EPA 300.0
00530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	08/15/2023 08:50 AM	CLONTZ	USGS I-3765-85
00530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	08/15/2023 08:50 AM	CLONTZ	USGS I-3765-85
82079 TURBIDITY, NEPHELMETRIC	<1 NTU (U)	08/15/2023 02:47 PM	JAHOUE	EPA 180.1
82079 TURBIDITY, NEPHELMETRIC	<1 NTU (U)	08/15/2023 02:47 PM	JAHOUE	EPA 180.1
01092A ZINC, TOTAL (WATER & WASTE) BY ICP	<30.0 ug/L (U)	08/16/2023 11:05 AM	CREITMEYER	EPA 200.7
01092A ZINC, TOTAL (WATER & WASTE) BY ICP	<30.0 ug/L (U)	08/16/2023 11:05 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