



Date of Issue: 09/12/2023 04:18:32

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
Water Supply Management

Sample ID: 4479 010

Date Collected: 08/15/2023 09:20:00 AM

Lab Sample ID: I2023013375

Status: Completed

Name of Sample Collector: Quittapahilla Creek WIP Monitoring

Date Received: 08/16/2023

County: NOT INDICATED

State:

Municipality: NOT INDICATED

Location: NOT INDICATED

Reason: Routine Sampling

Project: NOT INDICATED

Standard Anlysis: 087

Matrix: Water

Stream Condition:

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
00410 ALKALINITY AS CaCO3 @ pH 4.5	261.0 mg/L	08/16/2023 11:21 AM	JAHOQUE	SM 2320B
** Comment ** Sample bottle had headspace present before analysis				
00410 ALKALINITY AS CaCO3 @ pH 4.5	261.0 mg/L	08/16/2023 11:21 AM	JAHOQUE	SM 2320B
** Comment ** Sample bottle had headspace present before analysis				
01106H ALUMINUM, DISSOLVED (WATER & WASTE) BY ICPMS	<15.0 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01106H ALUMINUM, DISSOLVED (WATER & WASTE) BY ICPMS	<15.0 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	127.000 ug/L	08/22/2023 11:31 AM	ELEEDY	EPA 200.8

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01105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	127.000 ug/L	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
00608A AMMONIA DISSOLVED AS NITROGEN	<.02 mg/L (U)	08/22/2023 06:29 PM	MAMCNULTY	EPA 350.1
00608A AMMONIA DISSOLVED AS NITROGEN	<.02 mg/L (U)	08/22/2023 06:29 PM	MAMCNULTY	EPA 350.1
00610A AMMONIA TOTAL AS NITROGEN	<.02 mg/L (U)	08/22/2023 06:16 PM	MAMCNULTY	EPA 350.1
00610A AMMONIA TOTAL AS NITROGEN	<.02 mg/L (U)	08/22/2023 06:16 PM	MAMCNULTY	EPA 350.1
01097H ANTIMONY, TOTAL (WATER &WASTE) BY ICPMS	<2.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01097H ANTIMONY, TOTAL (WATER &WASTE) BY ICPMS	<2.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01007A BARIUM, TOTAL (WATER & WASTE) BY ICP	57.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01007A BARIUM, TOTAL (WATER & WASTE) BY ICP	57.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01022K BORON, TOTAL (WATER & WASTE) BY ICP	<200. ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01022K BORON, TOTAL (WATER & WASTE) BY ICP	<200. ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01025H CADMIUM, DISSOLVED (WATER & WASTE) BY ICPMS	<0.200 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01025H CADMIUM, DISSOLVED (WATER & WASTE) BY ICPMS	<0.200 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01027H CADMIUM, TOTAL (WATER & WASTE) BY ICPMS	<0.200 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01027H CADMIUM, TOTAL (WATER & WASTE) BY ICPMS	<0.200 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
00916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	88.110 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	88.110 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01034H CHROMIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01034H CHROMIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01037H COBALT, TOTAL (WATER & WASTE) BY ICP	<1.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01037H COBALT, TOTAL (WATER & WASTE) BY ICP	<1.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01040H COPPER, DISSOLVED (WATER & WASTE) BY ICPMS	1.180 ug/L (J)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01040H COPPER, DISSOLVED (WATER & WASTE) BY ICPMS	1.180 ug/L (J)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01042H COPPER, TOTAL (WATER & WASTE) BY ICPMS	0.810 ug/L (J)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01042H COPPER, TOTAL (WATER & WASTE) BY ICPMS	0.810 ug/L (J)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
00631A Dissolve Nitrate & Nitrite Nitrogen	9.27 mg/L	08/16/2023 03:25 PM	TBEAR	EPA 353.2
00631A Dissolve Nitrate & Nitrite Nitrogen	9.27 mg/L	08/16/2023 03:25 PM	TBEAR	EPA 353.2
00671A Dissolve Ortho Phosphorus	<.01 mg/L (U)	08/16/2023 02:38 PM	LBENT	EPA 365.1
00671A Dissolve Ortho Phosphorus	<.01 mg/L (U)	08/16/2023 02:38 PM	LBENT	EPA 365.1
00602A Dissolved Nitrogen as N	10.262 mg/L	08/29/2023 03:04 PM	TBEAR	SM 4500-NC
00602A Dissolved Nitrogen as N	10.262 mg/L	08/29/2023 03:04 PM	TBEAR	SM 4500-NC
00666A Dissolved Phosphorus as P	<0.01 mg/L (U)	09/05/2023 10:51 PM	LBENT	EPA 365.1
00666A Dissolved Phosphorus as P	<0.01 mg/L (U)	09/05/2023 10:51 PM	LBENT	EPA 365.1
00900 HARDNESS, TOTAL (CALCULATED)	295 mg/L	08/17/2023 09:45 AM	CWINDLE	SM 2340 B

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** Comment ** Accredited by NJ only - accreditation not available from PA				
00900 HARDNESS, TOTAL (CALCULATED)	295 mg/L	08/17/2023 09:45 AM	CWINDLE	SM 2340 B
** Comment ** Accredited by NJ only - accreditation not available from PA				
01046A IRON, DISSOLVED (WATER & WASTE) BY ICP	<100. ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01046A IRON, DISSOLVED (WATER & WASTE) BY ICP	<100. ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01045A IRON, TOTAL (WATER & WASTE) BY ICP	307.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01045A IRON, TOTAL (WATER & WASTE) BY ICP	307.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01049H LEAD, DISSOLVED (WATER & WASTE) BY ICPMS	<1.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01049H LEAD, DISSOLVED (WATER & WASTE) BY ICPMS	<1.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01051H LEAD, TOTAL (WATER & WASTE) BY ICPMS	<1.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01051H LEAD, TOTAL (WATER & WASTE) BY ICPMS	<1.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01130A LITHIUM, DISSOLVED (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01130A LITHIUM, DISSOLVED (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
99020 Low Bromide by IC	<25.0 ug/L (U)	08/22/2023 03:36 PM	JOMARKEY	EPA 300.1 B
99020 Low Bromide by IC	<25.0 ug/L (U)	08/22/2023 03:36 PM	JOMARKEY	EPA 300.1 B
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	18.06 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	18.06 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01056A MANGANESE, DISSOLVED (WATER & WASTE) BY ICP	<10.0 ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01056A MANGANESE, DISSOLVED (WATER & WASTE) BY ICP	<10.0 ug/L (U)	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01055A MANGANESE, TOTAL (WATER & WASTE) BY ICP	16.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01055A MANGANESE, TOTAL (WATER & WASTE) BY ICP	16.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
71900I MERCURY, TOTAL	<0.200 ug/L (U)	08/23/2023 01:45 PM	FHUNZIKER	EPA 245.1
71900I MERCURY, TOTAL	<0.200 ug/L (U)	08/23/2023 01:45 PM	FHUNZIKER	EPA 245.1
01065H NICKEL, DISSOLVED (WATER & WASTE) BY ICPMS	<8.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01065H NICKEL, DISSOLVED (WATER & WASTE) BY ICPMS	<8.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01067H NICKEL, TOTAL (WATER & WASTE) BY ICPMS	<8.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01067H NICKEL, TOTAL (WATER & WASTE) BY ICPMS	<8.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
82550 OSMOTIC PRESSURE, MOSM/KG	7 mosm/kg	08/16/2023 02:14 PM	ALELANG	PADEP 391-2000-008
82550 OSMOTIC PRESSURE, MOSM/KG	7 mosm/kg	08/16/2023 02:14 PM	ALELANG	PADEP 391-2000-008
00403 pH, Lab (Electrometric)	7.6 pH units	08/16/2023 11:21 AM	JAHOUE	SM 4500-H+ B
** Comment ** Holding time exceeded				

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00403 pH, Lab (Electrometric)	7.6 pH units	08/16/2023 11:21 AM	JAHOQUE	SM 4500-H+ B
** Comment ** Holding time exceeded				
00935A POTASSIUM, DISSOLVED WATER & WASTE) BY ICP	2.868 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00935A POTASSIUM, DISSOLVED WATER & WASTE) BY ICP	2.868 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	2.91 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	2.91 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01145H SELENIUM, DISSOLVED (WATER &WASTE) BY ICPMS	<4.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01145H SELENIUM, DISSOLVED (WATER &WASTE) BY ICPMS	<4.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01077H SILVER, TOTAL (WATER & WASTE) BY ICPMS	<0.400 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01077H SILVER, TOTAL (WATER & WASTE) BY ICPMS	<0.400 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	11.97 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00929A SODIUM, TOTAL (WATER & WASTE) BY ICP	11.97 mg/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	539.00 umhos/cm	08/24/2023 03:50 PM	MTUZINSKI	SM 2510B
00095 SPECIFIC CONDUCTIVITY @ 25.0 C	539.00 umhos/cm	08/24/2023 03:50 PM	MTUZINSKI	SM 2510B
01082A STRONTIUM, TOTAL (WATER & WASTE) BY ICP	326.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
01082A STRONTIUM, TOTAL (WATER & WASTE) BY ICP	326.00 ug/L	08/17/2023 09:45 AM	CWINDLE	EPA 200.7
00403T Temperature at which pH is measured	18.98 C	08/16/2023 11:21 AM	JAHOQUE	SM 4500-H+ B
00403T Temperature at which pH is measured	18.98 C	08/16/2023 11:21 AM	JAHOQUE	SM 4500-H+ B
01059H THALLIUM, TOTAL (WATER & WASTE) BY ICPMS	<2.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01059H THALLIUM, TOTAL (WATER & WASTE) BY ICPMS	<2.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
00940A Total Chloride-Colorimetric	25.0 mg/L	08/23/2023 06:33 PM	MTUZINSKI	SM 4500-CL- E
00940A Total Chloride-Colorimetric	25.0 mg/L	08/23/2023 06:33 PM	MTUZINSKI	SM 4500-CL- E
70300U TOTAL DISSOLVED SOLIDS @ 180C BY USGS-I-1750	352 mg/L	08/16/2023 12:40 PM	JRONEMUS	USGS I-1750-85
70300U TOTAL DISSOLVED SOLIDS @ 180C BY USGS-I-1750	352 mg/L	08/16/2023 12:40 PM	JRONEMUS	USGS I-1750-85
00620 Total Nitrate Nitrogen-Ion Chromatograph	10.22 mg/L	08/16/2023 04:23 PM	FVODOPIVEC	EPA 300.0
00620 Total Nitrate Nitrogen-Ion Chromatograph	10.22 mg/L	08/16/2023 04:23 PM	FVODOPIVEC	EPA 300.0
00615 Total Nitrite Nitrogen-Ion Chromatograph	<0.04 mg/L (U)	08/16/2023 01:13 PM	FVODOPIVEC	EPA 300.0
00615 Total Nitrite Nitrogen-Ion Chromatograph	<0.04 mg/L (U)	08/16/2023 01:13 PM	FVODOPIVEC	EPA 300.0
00600A Total Nitrogen as N	10.14 mg/L	08/29/2023 03:06 PM	TBEAR	SM 4500-NC
00600A Total Nitrogen as N	10.14 mg/L	08/29/2023 03:06 PM	TBEAR	SM 4500-NC
00680 Total Organic Carbon	0.63 mg/L	08/21/2023 01:58 PM	JOMARKEY	SM 5310 C
00680 Total Organic Carbon	0.63 mg/L	08/21/2023 01:58 PM	JOMARKEY	SM 5310 C
70507A Total Ortho Phosphorus as P	<0.01 mg/L (U)	08/16/2023 02:35 PM	LBENT	EPA 365.1

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70507A Total Ortho Phosphorus as P	<0.01 mg/L (U)	08/16/2023 02:35 PM	LBENT	EPA 365.1
00665A Total Phosphorus as P	0.016 mg/L	09/05/2023 10:49 PM	LBENT	EPA 365.1
00665A Total Phosphorus as P	0.016 mg/L	09/05/2023 10:49 PM	LBENT	EPA 365.1
00945 Total Sulfate-Ion Chromatograph	21.09 mg/L	08/16/2023 01:13 PM	FVODOPIVEC	EPA 300.0
00945 Total Sulfate-Ion Chromatograph	21.09 mg/L	08/16/2023 01:13 PM	FVODOPIVEC	EPA 300.0
00530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	08/17/2023 09:05 AM	CLONTZ	USGS I-3765-85
00530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	08/17/2023 09:05 AM	CLONTZ	USGS I-3765-85
01087H VANADIUM, TOTAL (WATER & WASTE) BY ICPMS	<13.0 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01087H VANADIUM, TOTAL (WATER & WASTE) BY ICPMS	<13.0 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01090H ZINC, DISSOLVED (WATER & WASTE) BY ICPMS	<5.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01090H ZINC, DISSOLVED (WATER & WASTE) BY ICPMS	<5.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01092H ZINC, TOTAL (WATER & WASTE) BY ICPMS	<5.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8
01092H ZINC, TOTAL (WATER & WASTE) BY ICPMS	<5.00 ug/L (U)	08/22/2023 11:31 AM	ELEEDY	EPA 200.8

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