

**FOURTH QUARTER 2021
REMEDIAL ACTION PROGRESS
REPORT
FORMER ROUTE 119 AMOCO
PADEP FACILITY ID# 26-18711
1809 UNIVERSITY DRIVE
DUNBAR TOWNSHIP
FAYETTE COUNTY, PENNSYLVANIA**

FOR

**TIMOTHY AND MICHELE SHELL
202 CENTERWOOD CIRCLE
UNIONTOWN, PA 15401**

January 2022

Project Number: 13-17313-01

BY

**CONVERSE CONSULTANTS
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1.0 INTRODUCTION

Converse Consultants (Converse) on behalf of Timothy and Michele Shell submits this Remedial Action Progress Report (RAPR) for the Former Route 119 Amoco facility located at 1809 University Drive (Route 119) in Dunbar Township, Fayette County, Pennsylvania (subject property) in accordance with 25 PA Code Chapter 245 (§245): Section 312(b). This RAPR documents the monitoring period from October 1, 2021 through December 31, 2021. A quarterly groundwater sample collection event was conducted on October 28, 2021.

Converse was retained by the Shells to complete site characterization work that was initiated by a previous consultant and complete remedial activities to demonstrate attainment of the selected standards for soil and groundwater in accordance with guidance received from PADEP and USTIF.

A petroleum release at the site was discovered in 1996 due to the presence of unusual levels of gasoline vapors and stained soil that was observed while excavating above the tanks to upgrade piping. The release was traced to loose swing joints and faulty coupler connections along the subsurface piping to the dispensers at the Facility. The UST system was removed as part of the cleanup in 2005. Impacted media removed at the time of closure for off-site disposal included 86 tons of impacted soil.

A Site Characterization Report (SCR) and Remedial Action Plan (RAP) were submitted to the Pennsylvania Department of Environmental Protection (the Department/PADEP) by the previous consultant on May 4, 1998. Additional information was supplied to the Department in September 2006, April 2011, and April 2012. The SCR was approved by the Department with modifications on February 23, 2007.

A Combined Supplemental SCR (SSCR) and RAP were submitted to PADEP by Converse in September 2017. The SSCR/RAP was approved by PADEP on October 31, 2017. **Appendix A: Figure 1** presents the location of the Property relative to area roads and features.

2.0 DOCUMENTATION AND ADMINISTRATIVE SUMMARY

2.1 PRIMARY CONTACTS

Responsible Party

Tim and Michele Shell
202 Center Wood Circle
Uniontown, Pennsylvania 15401
Primary Contact: Ms. Michele Shell
Phone: (724) 438-8472
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USTIF/ICF Contact

ICF International
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Fairfax, Virginia 22031
Primary Contact: Ms. Bethany Smith
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PADEP Staff Contact

PADEP – Southwest Region
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222
Primary Contact: Mr. Ken Tua
Phone: (412) 442-4000
Email: ktua@pa.gov

2.2 SITE USE DESIGNATION

One (1) Site was identified during the Site Characterization. The Site extends beyond the boundary of the Property and includes soil and groundwater that are circumscribed by the monitoring wells at the Site.

Appendix A: Figure 2 presents cultural features that are located on and in the general area of the site. The Property has historically been utilized to service, store, and fuel vehicles. There are no longer any USTs located at the Property. The current use of the Property meets the definition of a Nonresidential Property as promulgated in *Act 2 of 1995: Pennsylvania Land Recycling and Environmental Remediation Standards Act* (Act 2), *Section 103*. The use of properties that are adjacent to the Site consists primarily of commercial, residential, and undeveloped land. The current use of surrounding properties meets the definition of nonresidential and residential property as promulgated in *Act 2, Section 103*. The probable future use of the Property and adjacent properties may be for either Residential or Nonresidential purposes.

2.3 SELECTED STANDARD

The Site-Specific Standard (SSS), as defined in Act 2: Section 303 and §250: Subchapter C, is the cleanup standard that is currently selected for soil and groundwater beneath the Site.

2.4 POINT OF COMPLIANCE WELLS

The point of compliance (POC) monitoring wells are identified as:

- Shallow Bedrock: MW-3, MW-10S, MW-27S.
- Deep Bedrock: MW-4, MW-7, MW-8, MW-10, MW-11.

Refer to **Appendix A: Figure 2** for the locations of the monitoring wells listed above.

2.5 OFF-FACILITY ACCESS AGREEMENTS

Delineation of the impacted soil and groundwater required the installation of multiple borings within the PennDOT right-of-way (ROW) and on nearby properties owned by Scott and Cathy Malago, Civic Development Company, and the Health First Medical Center. The Township of Dunbar provided access to the PennDOT ROW, and the private property owners granted access to their properties for monitoring well installation and groundwater monitoring activities.

2.6 AQUIFER USE DETERMINATION

The aquifer beneath and in the area of the Facility is considered to be used, is currently planned for use (§250.403(b)), and to contain less than 2,500 milligrams per liter (mg/l) of dissolved solids.

2.7 FEDERAL, STATE, AND LOCAL PERMITS OR APPROVALS

Local and federal permits are not required for the work that is being conducted at the Site. To the best of our knowledge, PADEP approval of the ongoing measures is the only approval that is required.

2.8 SUBMITTED REPORTS AND PADEP RESPONSES

Submittals

- *Site Characterization Report, Route 119 Amoco, Facility ID #26-18711, State Route 119, Dunbar Township, Fayette Co. Dunbar, Pennsylvania, dated May 4, 1998, prepared by Chambers Environmental Group, Inc. of Pleasant Gap, Pennsylvania (1998 SCR/RAP).*
- *Comprehensive Environmental Site Characterization (SCR/RAP), Facility ID #26-18711, Former Route 119 Amoco, 1809 University Drive, Dunbar, Pennsylvania 15431, dated September 2006, prepared by Letterle & Associates, LLC of Allison Park, Pennsylvania (2006 SCR/RAP).*
- *Additional Site Characterization Report/Groundwater Monitoring Report (SCR), PADEP Facility ID # 26-18711, Former Route 119 Amoco, 1809 University Drive, Dunbar, Pennsylvania 15431, dated April 2011, prepared by Letterle & Associates, LLC of Allison Park, Pennsylvania (2011 SCR).*
- *Yearly Progress Report and Pilot Test (additional SCR), PADEP Facility ID #26-18711, Former Route 119 Amoco, 1809 University Drive, Dunbar, Pennsylvania 15431, dated April 2012, prepared by Letterle & Associates, LLC of Allison Park, Pennsylvania (2012 SCR).*
- *Supplemental Site Characterization and Remedial Action Plan (SSCR/RAP), prepared by Converse, submitted to PADEP September 18, 2017 (2017 SSCR/RAP).*

Responses

- *SCR Approval Letter, dated February 23, 2007, signed by Ms. Patricia Renwick from the PADEP Southwest Regional Office.*
- *SSCR/RAP Approval Letter, dated October 31, 2017, signed by Ms. Patricia Renwick from the PADEP Southwest Regional Office.*

3.0 PROPERTY DESCRIPTION

3.1 SITE LOCATION

The Property (Former Route 119 Amoco) is located at 1809 University Drive (SR 119), Dunbar Township, Fayette County, Pennsylvania (N39° 58' 04.21", W79° 38' 46.84" [NAD 83]) and is currently operated as Summit Motors Used Cars Plus. **Appendix A: Figure 1** presents the location of the Property relative to area roads and features.

3.2 PROPERTY SETTING

The Uniontown, Pennsylvania USGS 7.5-minute Quadrangle Map indicates that the elevation of the Property is approximately 1,250 feet above mean sea level. The former Route 119 Amoco Property is located within an area of dissected low plateau that is characterized by rolling hills. The topography of the property is gently sloping to the southeast, toward Route 119. The Property sits between the forks of a Y-intersection where Route 119 intersects Hi-Way Supply Road. The site extends to the west across Hi-Way Supply Road and into a field sloping gently to the west behind the adjacent residence, which sits at approximately the same elevation as the Property.

No surface water body is present within the boundaries of the Property. A small, unnamed pond lies approximately 900 feet west of the Property, with a small drainage stream flowing southward from it.

3.3 PROPERTY DESCRIPTION AND OPERATIONS

Appendix A: Figure 2 presents site features and the boundaries of the Property. The Property is currently owned by Mick McGuire. The Property is currently operated as a retail used automobile dealership and auto repair shop. All former USTs at the Property have been removed, however their historical locations at the Property are shown on **Figure 2 of Appendix A**.

The Property is gently sloping to the southeast and is covered with pavement (concrete or asphalt) and gravel. The area of the former release is covered by pavement. One slab on grade building is located at the Property and the Property and surrounding areas are served by public water and sewer.

4.0 GENERAL FACILITY GEOLOGY

The Pennsylvania Department of Environmental Resources, Bureau of Topographic and Geologic Survey, *Geologic Map of Pennsylvania, 1980* indicates that the bedrock that underlies the unconsolidated material at the Site is classified as the Pennsylvanian-aged Glenshaw Formation. The Glenshaw Formation is described as cyclic sequences of shale, sandstone, red beds, and thin limestones and coals. Shale bedrock was encountered during soil boring and monitoring well installation activities at depths of 5 to 10 feet below grade.

Soil borings and excavation activities that were completed at the Property indicate that unconsolidated material is present beneath the Site, and generally consists of gravel fill, silty clays, and weathered shale.

5.0 GENERAL FACILITY HYDROGEOLOGY

Field and published data indicate that aquifers are present in the bedrock beneath the Property. The previously completed site characterization identified a leaky bedrock aquifer characterized by deeper water levels in monitoring wells that are screened at deeper depths. **Appendix A: Figure 2** presents the locations of the monitoring wells.

The former Route 119 Amoco Property is located within an area of dissected low plateau that is characterized by rolling hills. The depth to groundwater in monitoring wells that are completed within the upper unit (shallow bedrock aquifer) (MW-3, MW-10S, MW-12S, MW-13S, MW-14S, MW-15S, and MW-18S through MW-27S) ranges from approximately 0.49 foot to 29.65 feet below grade. The depth to groundwater in the monitoring wells that are completed in the lower unit (deep bedrock aquifer) (MW-4, MW-6, MW-7, MW-10, MW-12, MW-13, MW-16, and MW-17) ranges from approximately 22.27 feet to 46.09 feet below grade. Lower groundwater levels within the lower unit indicate the potential for downward migration of contaminants at the Site.

Groundwater elevation data indicate that groundwater flow beneath the Former Route 119 Amoco site is to the south and west in the shallow bedrock aquifer and to the south and west in the deep bedrock aquifer. Groundwater elevation contour maps prepared using data collected during the most recent groundwater sampling event are included as **Appendix A: Figures 3 and 4**. **Appendix B: Table 1** presents a tabulated summary of the relative elevation survey data, depth to water data, and calculated groundwater relative elevation data.

6.0 QUARTERLY SUMMARY

6.1 QUARTERLY GROUNDWATER SAMPLE COLLECTION

6.1.1 General

A quarterly groundwater sampling event was conducted on October 28, 2021 from the accessible monitoring wells. Samples were collected from monitoring wells MW-3, MW-10S, MW-12, MW-12S, MW-15S, MW-18S, MW-19S, MW-20S, MW-21S, MW-22S,

MW-26S, MW-27S and the pond. **Appendix A: Figure 2** presents the locations of the monitoring wells.

As suggested by PADEP during a phone call that occurred in August 2019, the shallow bedrock monitoring wells MW-23S, MW-24S, and MW-25S and deep bedrock monitoring wells MW-4, MW-6, MW-7, MW-8, MW-10, MW-13 (destroyed), MW-16, and MW-17 (destroyed) were removed from the sampling regimen.

6.1.2 Water Level Measurement

A Slope Indicator™ Water Level Indicator was used to measure the water levels in the monitoring wells (including wells that were not being sampled) prior to light non-aqueous phase liquid (LNAPL) monitoring, purge activities, and sample collection. Depth to groundwater during the fourth quarter 2021 groundwater sampling event ranged from 1.68 (MW-3) to 27.72 (MW-27S) feet below top of casing in the shallow bedrock aquifer and 28.44 (MW-6) to 46.04 (MW-16) feet below top of casing in the deep bedrock aquifer.

6.1.3 Light Non-Aqueous Phase Liquid (LNAPL) Monitoring and Recovery

Interim remedial measures have been implemented to periodically remove LNAPL from monitoring wells where it is observed. Specifically, absorbent socks were placed in select monitoring wells and changed out bi-weekly between September 2017 and July 2019 as a passive form of remediation. In addition, a high vacuum extraction event was conducted in August 2019 as described below.

During the second quarter 2019 groundwater sampling event (April 2019), the absorbent socks were removed from each well upon arrival at the site on the first day of the quarterly event. The wells were allowed to recover for approximately 30-hours before LNAPL was measured and a new sock was installed. After well recovery, approximately 4-inches of product was observed in RW-1. This was the most LNAPL observed at a single well since Converse's involvement with this project. To address the increased thickness of the LNAPL, August 6, 2019, Converse performed a high vacuum extraction event on monitoring well MW-27S and recovery wells RW-1 and RW-2. Approximately 80-gallons of water mixed with LNAPL were extracted from MW-27S, approximately 564-gallons were extracted from RW-1, and approximately 500-gallons were extracted from RW-2. The liquid was extracted and transported for proper disposal by Weavertown Environmental Group of Carnegie, PA.

In August 2019, after the high vacuum extraction event, Converse and PADEP had a conversation regarding the closure path for the Site. During that conversation the parties agreed that the high vacuum events should cease, and only LNAPL monitoring and manual LNAPL bailing should occur to address the LNAPL at the Site for the next several months. In addition, Converse agreed to assess what thickness of product would act as the threshold for removal of LNAPL to the extent most practical.

Since the high vacuum extraction event conducted in August 2019, twenty-nine (29) LNAPL monitoring events have occurred. Monitoring wells MW-10S, 12S, 18S, 22S, and RW-1 have had measurable product thickness since the high vacuum extraction event, no other wells have displayed greater than a sheen of LNAPL. Wells MW-12S and RW-1 have shown a recent increase in measurable product thickness the during the past four quarters. However, product thickness decreased during the last product measurement event conducted on November 30, 2021.

During communications with the PADEP case manager on March 7, 2020, Converse was instructed to discontinue biweekly LNAPL bailing. Converse will place oil absorbent socks in wells containing LNAPL thickness greater than or equal to one-eighth inch ($\geq 1/8"$).

Refer to **Appendix B, Table 2** for a summary of water levels and LNAPL measurements recorded since August 2019.

6.1.4 Groundwater Sample Collection

Prior to sample collection, water level measurement described in the preceding section was conducted. The respective saturated casing volumes were calculated for the wells that were sampled. Each well was then purged of at least three (3) saturated casing volumes using a submersible pump and dedicated tubing or a polyethylene bailer. Purge water is field monitored for pH, temperature, and specific conductivity.

A disposable bailer was used to collect a groundwater sample from each of the sampled groundwater monitoring wells. The groundwater samples were collected directly into laboratory-supplied glassware.

6.1.5 GAC Effluent Sampling

The purge water from groundwater sample collection activities is treated with a portable GAC canister at the Site. One (1) GAC effluent sample is collected during each sampling event and submitted for laboratory analysis.

6.1.6 Project Quality Assurance/Quality Control Deliverables

Field and laboratory QA/QC protocol were consistent with PADEP protocol and with those that are published in the United States Environmental Protection Agency (USEPA) document titled *Solid Waste, Test Methods for Evaluating Solid Waste (EPA Manual SW-846)*. One (1) blind duplicate sample and one (1) trip blank are generally submitted with each sample set analyzed to provide quality assurance.

Nitrile disposable gloves were worn during sample collection activities and were changed prior to the collection of each sample. Each sample was given a unique identification number that was recorded on the field log, the Chain of Custody record, and the sample label.

All samples were placed in a cooler and chilled with ice for shipment to the analytical laboratory. All samples remained in the possession of Converse personnel until transferred to the analytical laboratory or to a courier for delivery to the analytical laboratory. Chain of Custody documentation was completed for and accompanied each sample set.

Single use bailers were used to collect the samples. Decontamination of these materials was, therefore, not necessary. Non-disposable sampling equipment was decontaminated prior to arrival at the site and between sample locations.

6.1.6.1 Laboratory Analysis

Groundwater samples from the Site were analyzed for benzene, cumene (isopropylbenzene), ethylbenzene, methyl tert-butyl ether (MTBE), naphthalene, toluene, and total xylenes. The samples were submitted to Fairway Laboratories of Altoona, Pennsylvania for analysis.

6.1.6.2 Laboratory Results

The following constituents were identified in groundwater above the respective PADEP RMSC during the October 2021 groundwater sampling event:

<u>Monitoring Well</u>	<u>Constituent(s)</u>
MW-3:	Benzene (37.9 µg/L)
MW-10S:	Benzene (50.8 µg/L)
MW-12:	MTBE (38.0 µg/L)
MW-12S:	Benzene (260 µg/L) Naphthalene (182 µg/L)
MW-15S:	Benzene (53.6 µg/L) and MTBE (64.4 µg/L)
MW-18S:	Benzene (178 µg/L)
MW-19S:	Benzene (25.7 µg/L), MTBE (85.9 µg/L)
MW-20S:	Benzene (22.6 µg/L), MTBE (111 µg/L)
MW-21S:	Benzene (7.59 µg/L)
MW-22S:	Benzene (146 µg/L)
MW-26S:	MTBE (18.7 µg/L)

Appendix A: Figures 5 through 8 present the distribution of constituents for the October 2021 groundwater sampling event. **Appendix B: Table 3** presents a historical summary of the analytical data for all documented groundwater sampling events that have been conducted at the Site. Copies of the laboratory data and chains of custody are included as **Appendix D**. Analytical results from the GAC effluent sample indicated that concentrations of all analyzed constituents are below their respective RMSC SHSs.

6.1.6.3 Practical Quantitation Limits (PQLs)

§250.4 stipulates limits that are related to practical quantitation limits (PQLs) for soil and groundwater. The *2019 LRP TGM* (document number 261-0300-101) presents PQLs that are established for a number of constituents. The PQLs that are listed in the *2019 LRP TGM* are either the estimated quantitation limits (EQLs) that are established in the most current version of the *USEPA RCRA Manual SW-846: Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods (EPA RCRA Manual SW-846)* or the method detection limits (MDL) of the test methods that are cited in the LRP TGM. The reported LQLs were less than the PQLs for the report period.

6.1.7 Constituent Concentration Trends

A linear trend evaluation has been conducted for each monitoring well that has exhibited constituent concentrations above their respective PADEP RMSC. Constituent concentrations are plotted against time with a linear trend line included to assess the trend. Groundwater analytical data presented in **Appendix B: Table 3** was used to prepare the trend charts. Trend charts are included in **Appendix C**. Decreasing trends are identified for nearly all constituents in all evaluated wells.

The following wells displaying increasing concentrations of COCs during the fourth quarter 2021 groundwater sample collection event:

- MW-3: Benzene (37.9 ug/L)

Constituent trends will continue to be evaluated each quarter.

6.2 EXISTING VAPOR POINT REVIEW

On March 4, 2021 Converse attempted to locate vapor points VP-4, VP-5, and VP-6 utilizing mapped locations and a metal detector. Vapor point VP-4 appears to have been destroyed and could not be located. VP-5 and VP-6 each have two tubes, one marked blue and one marked black. Each tube was measured to depth below ground surface and readings were taken with a MiniRae 2000 photoionization detector. The black tube of VP-5 was measured to a total depth of 6.08 feet below ground surface (ft-bgs) and the blue tube was measured to a total depth of 6.25 ft-bgs. The black tube of VP-6 was measured to a total depth of 5.07 ft-bgs and the blue tube was measured to a total depth of 7.07 ft-bgs. No detectable PID readings above 0 ppm were observed in either of the vapor points. Refer to **Appendix A: Figure 2** for the locations of the vapor points.

The construction of the existing vapor points VP-4, VP-5, and VP-6 do not appear to comply with current construction requirements for vapor sample collection points.

7.0 PLANNED ACTIVITIES

The following activities are scheduled during the next monitoring quarter:

- First quarter 2022 groundwater sampling event (February 2022) and quarterly reporting.
- Continued monthly depth-to-water and separate phase liquid (SPL) measurements and oil absorbent sock change-outs.

- Continue documenting pre-sample groundwater and SPL (if applicable) purge volumes.
- Document post-purge depth-to-water and SPL measurements.

8.0 LIMITATIONS

Our services have been performed in accordance with applicable state and local ordinances, and generally accepted practices within our profession. No other warranty, either expressed or implied, is made.

Converse Consultants is not responsible or liable for any claims or damages associated with interpretation of available information provided by others. Site exploration identifies actual soil conditions only at those points where samples are taken, when they are taken. Data that are derived through sampling and analytical testing are extrapolated by Converse employees who then render an opinion about overall soil and/or groundwater conditions. Actual conditions in areas not sampled may differ. In the event that changes to the property occur, or additional relevant information about the property is brought to our attention, the recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed, and the recommendations of this report are modified or verified in writing. Converse Consultants cannot be held liable for the accuracy of information provided by others. This report is based on our review of currently available information and has been prepared in accordance with generally accepted practices of environmental sciences, geology, and hydrogeology.

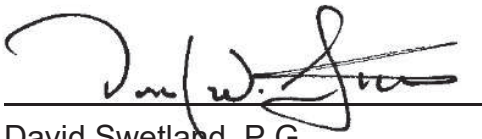
9.0 QUALIFICATIONS

Orion Cook is the primary Converse person responsible for the preparation of this Report. Mr. Cook has over 16 years of experience in the environmental consulting, hydrogeology, and geotechnical fields. Mr. Cook has been an Engineer with Converse Consultants since 2006.



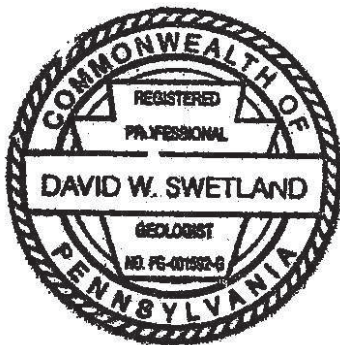
Orion B. Cook, P.E.
Senior Engineer

David Swetland is responsible for reviewing this report. Mr. Swetland has 31 years of experience conducting remedial investigations and providing environmental consulting services. Mr. Swetland has worked as a Geologist with Converse's State College, Pennsylvania office since 1991.



David Swetland, P.G.
Senior Geologist

AFFIX SEAL
HERE:



Appendix A

SOURCE: USGS Uniontown, PA
7.5' Topographic Quadrangle Map,
1963, Photorevised 1977



SCALE:
1 inch ≈ 2,000 feet

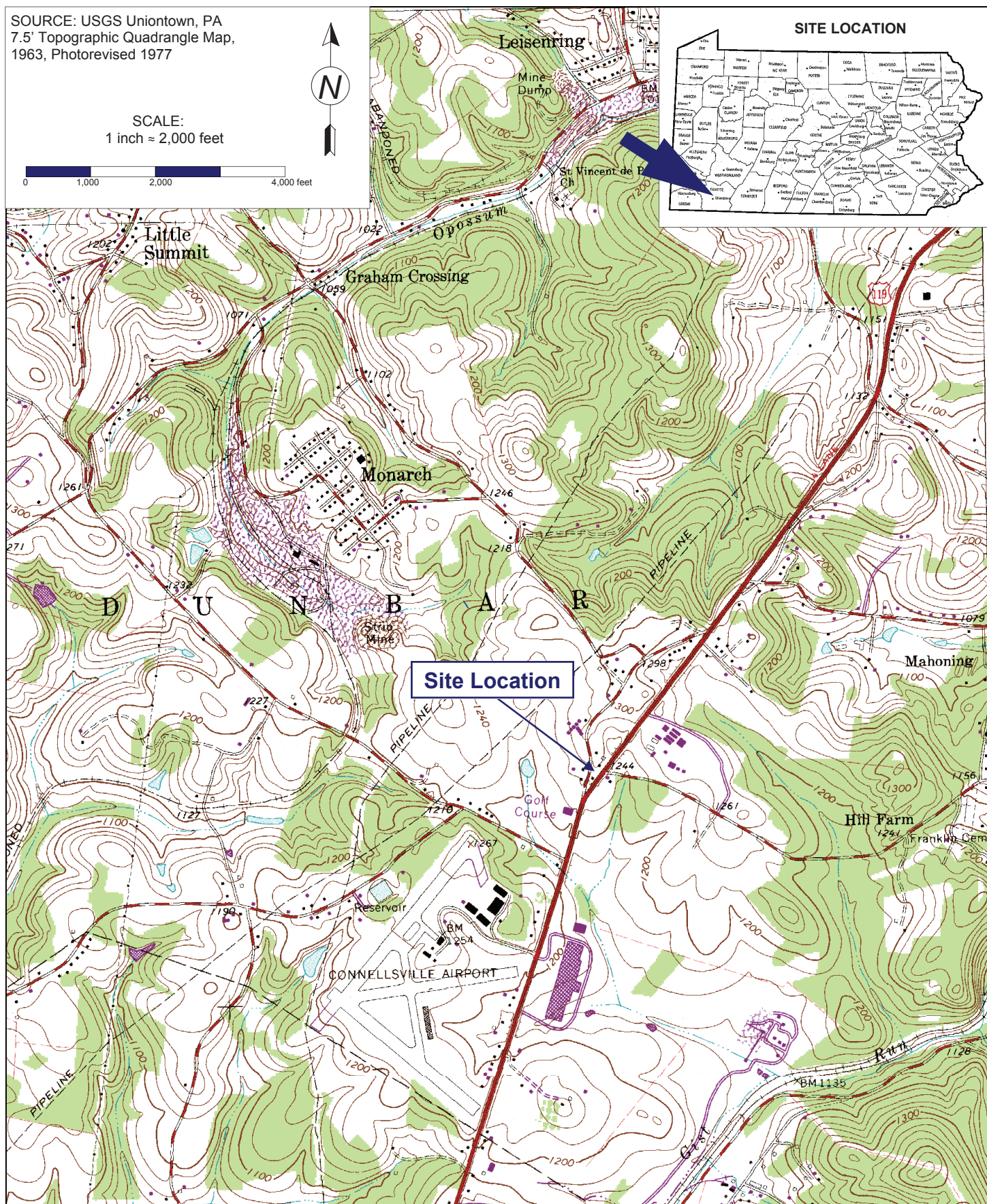


FIGURE 1: SITE LOCATION MAP

USTIF SITE
FORMER DUNBAR AMOCO, NOW McGUIRE'S GARAGE
108 HI WAY SUPPLY ROAD
DUNBAR, FAYETTE COUNTY, PENNSYLVANIA

Converse Project Number: 13-17313-01



CONVERSE CONSULTANTS
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FIGURE 2: SITE PLAN

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

Converse Project Number 13-17313-01



Converse Consultants
2738 West College Avenue
State College, PA 16801
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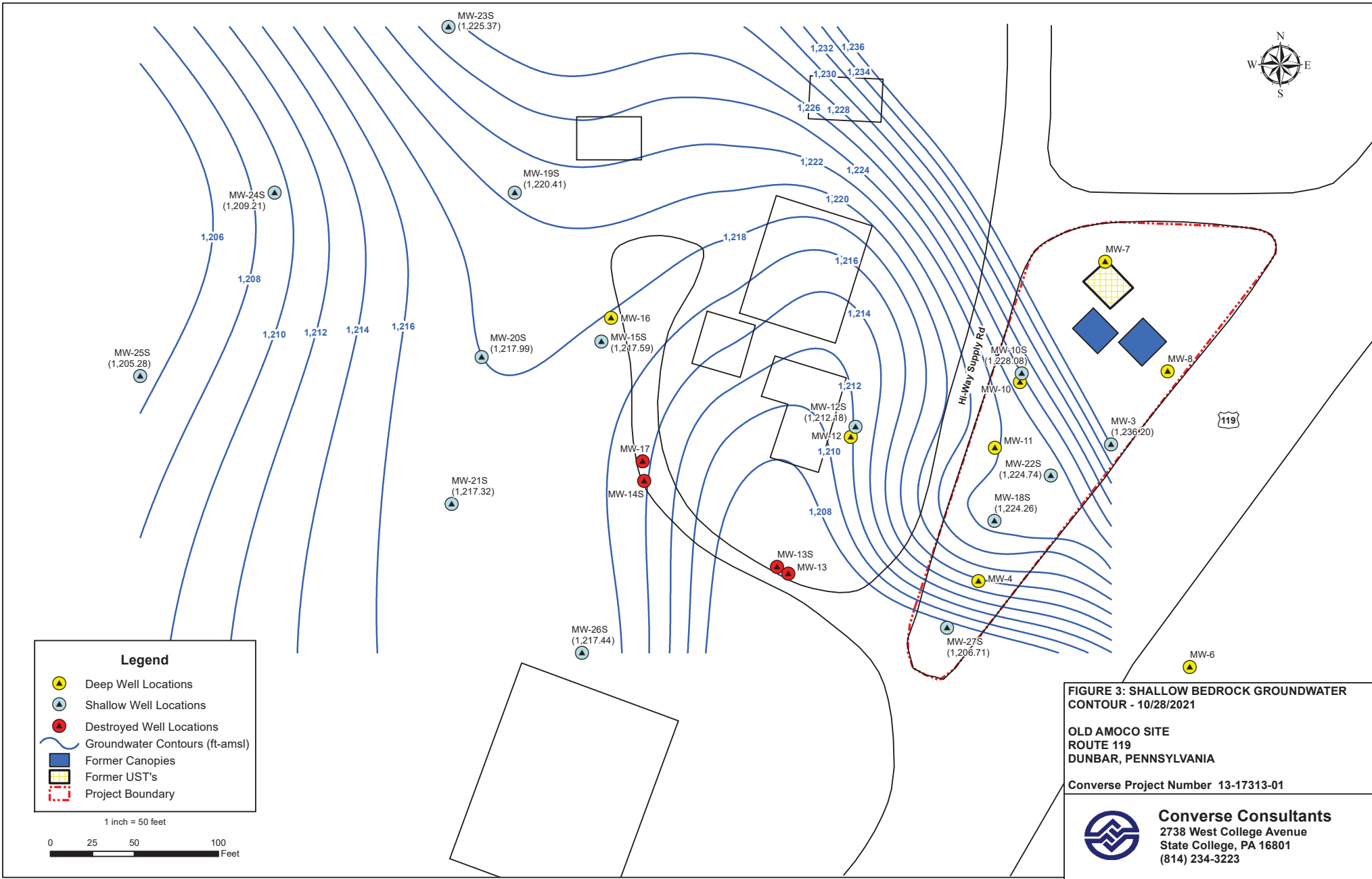
Legend

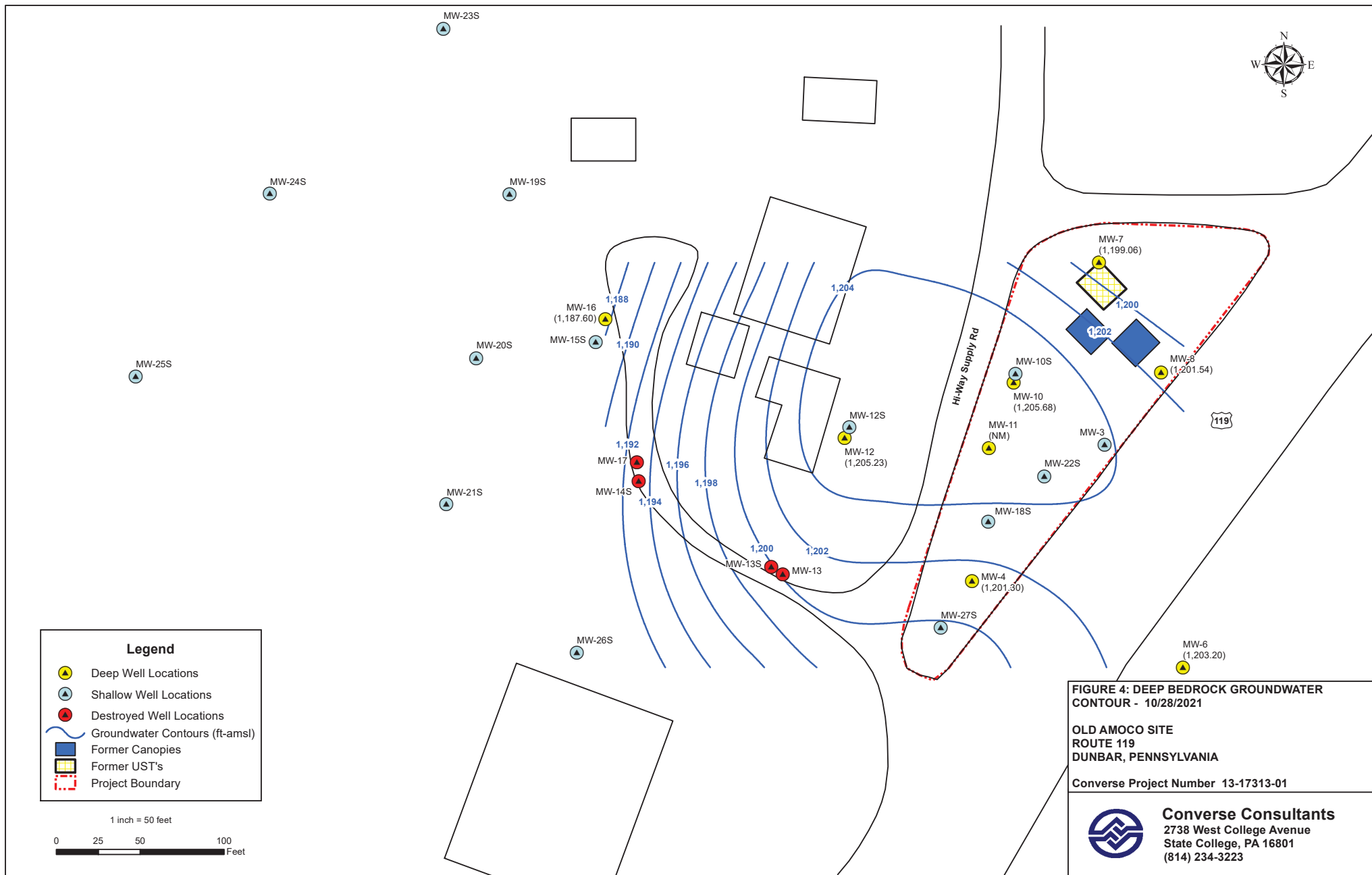
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- Vapor Point
- Deep Well Locations
- Shallow Well Locations
- Former UST's Former
- Canopies Project
- Boundary

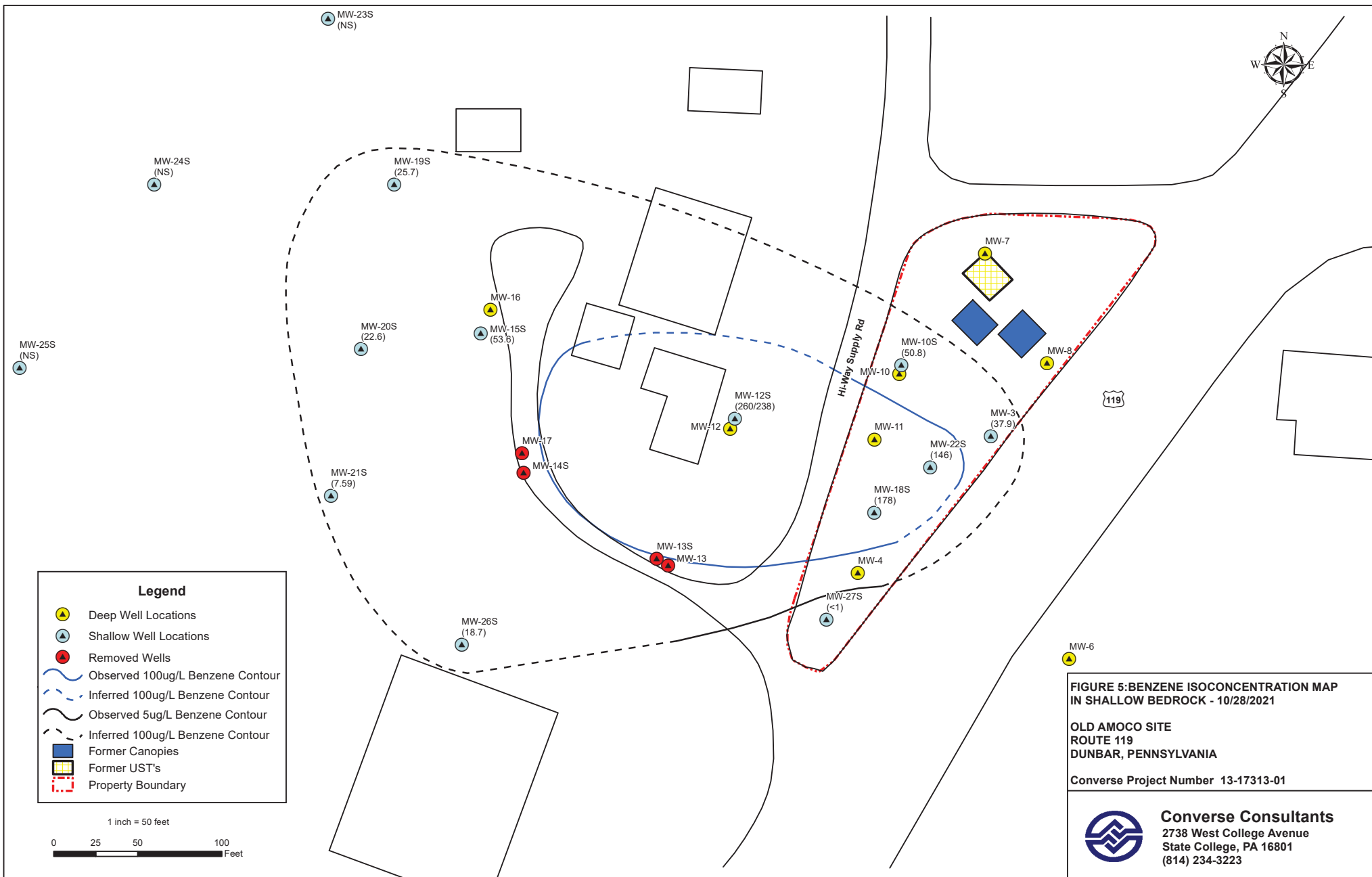
1 inch = 50 feet

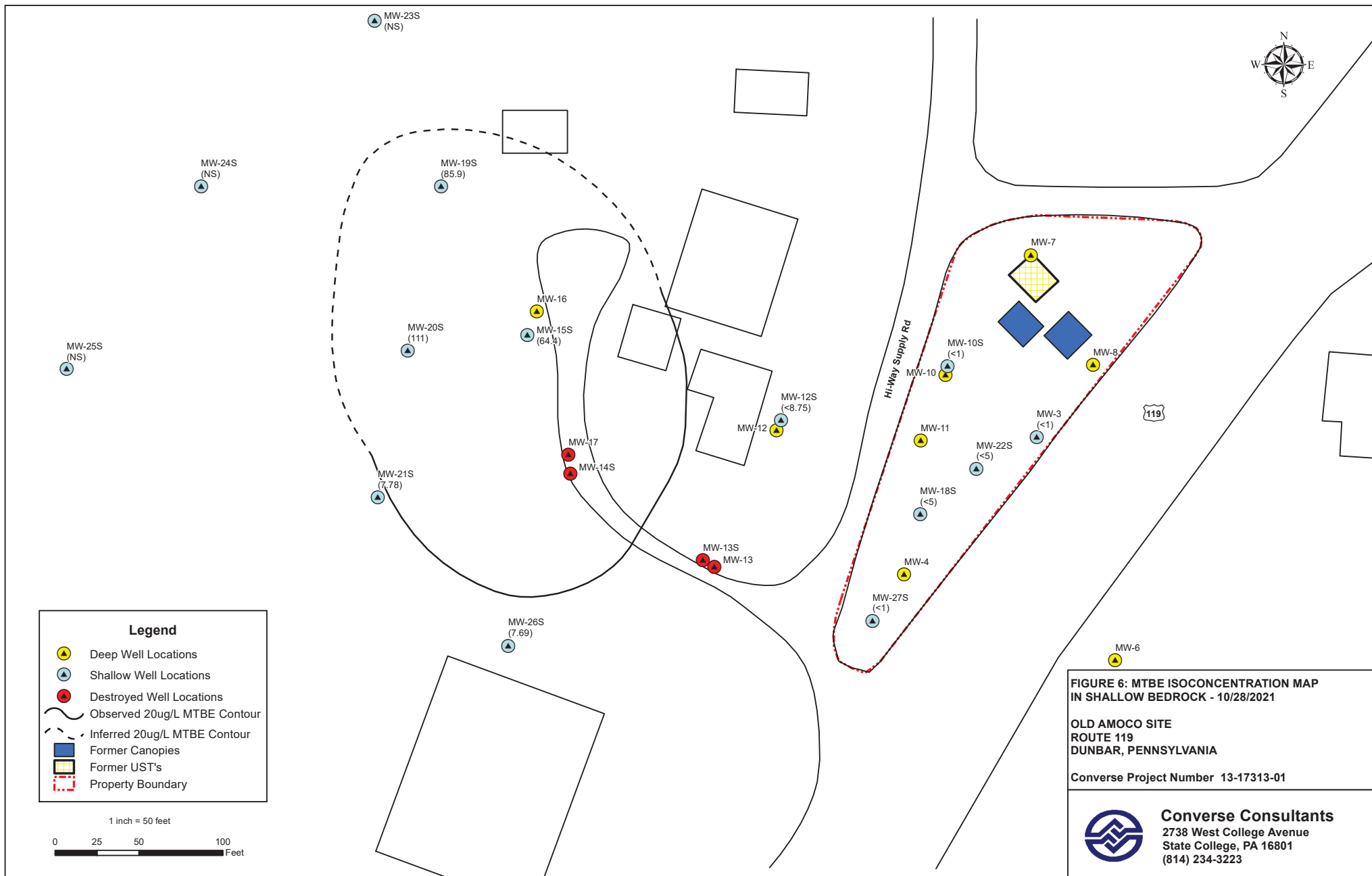
0 25 50 100
Feet

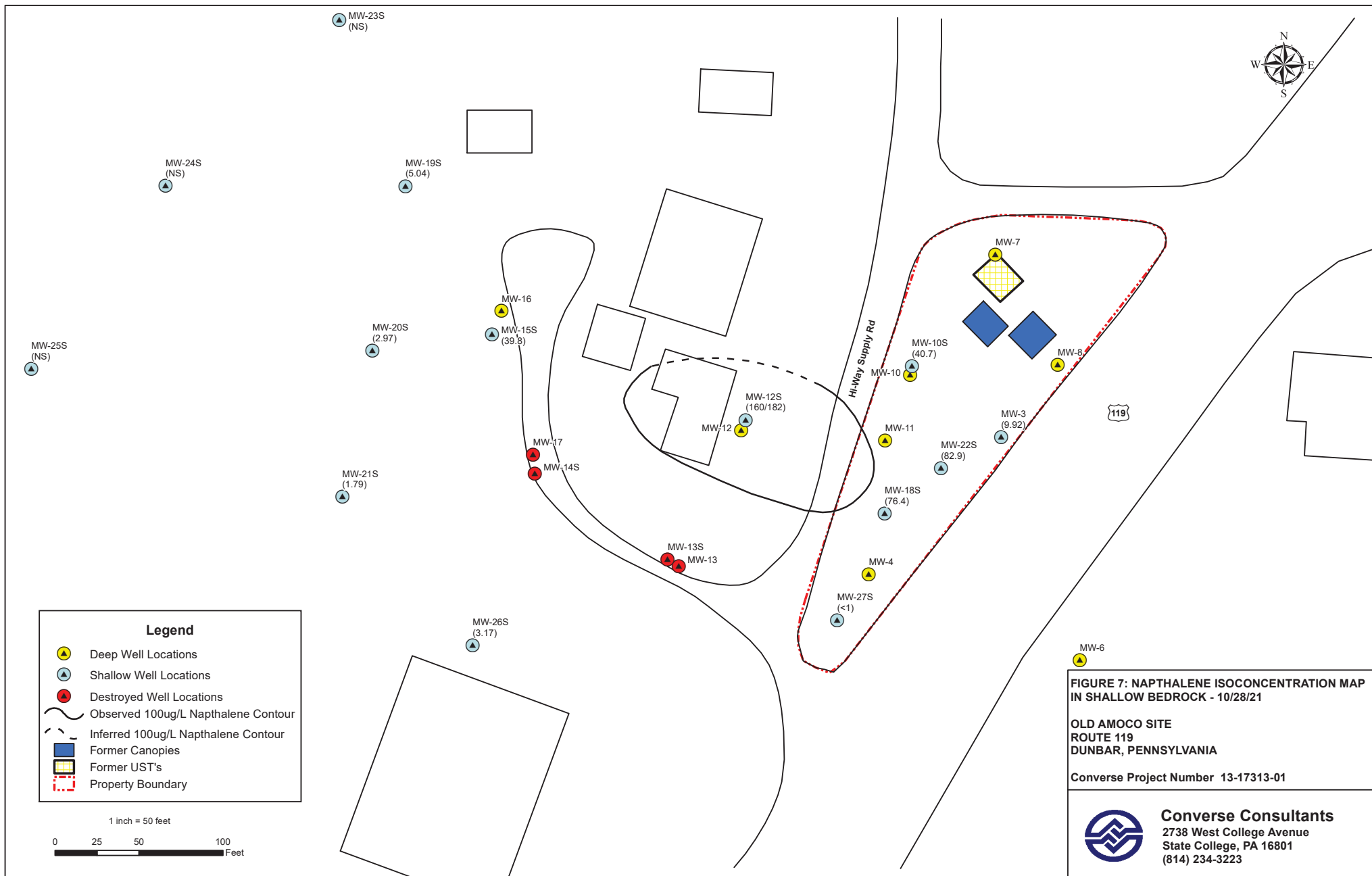
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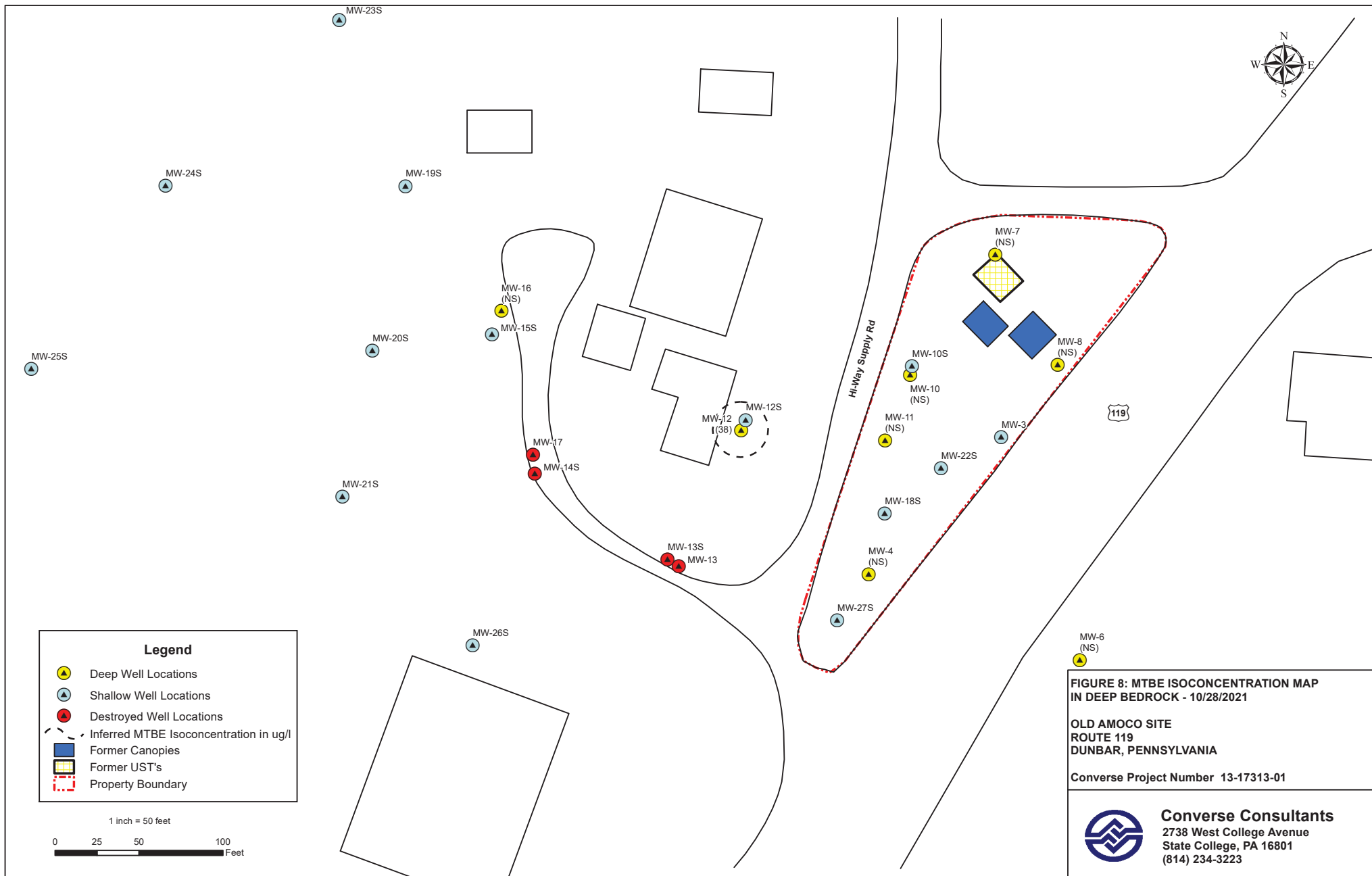












Appendix B

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-3 Shallow	36.00	16 to 36	1,237.88	6/24/14	12.48	1225.40
				8/28/14	NS	NS
				6/30/16	14.74	1223.14
				9/20/16	13.65	1224.23
				6/29/17	14.7	1223.18
				9/28/17	15.7	1222.18
				11/9/17	1.07	1236.81
				12/13/17	NS	NS
				3/19/18	15.14	1222.74
				5/16/18	1.00	1236.88
				9/6/18	15.47	1222.41
				12/11/18	1.56	1236.32
				3/6/19	0.97	1236.91
				5/15/19	0.91	1236.97
				9/18/19	13.58	1224.30
				11/12/19	1.20	1236.68
				2/3/20	1.16	1236.72
				4/21/20	1.24	1236.64
				7/27/20	16.00	1221.88
				10/28/20	18.48	1219.40
				3/4/21	1.02	1236.86
				4/30/21	1.57	1236.31
				7/29/21	14.33	1223.55
				10/28/21	1.68	1236.20
MW-4 Deep	50.00	30 to 50	1,236.13	6/24/14	34.49	1201.64
				8/28/14	IA	IA
				6/30/16	IA	IA
				9/20/16	IA	IA
				6/29/17	IA	IA
				9/28/17	IA	IA
				11/9/17	35.22	1200.91
				12/13/17	NS	NS
				3/19/18	NS	NS
				5/17/18	NS	NS
				9/6/18	28.4	1207.73
				12/11/18	NS	NS
				3/6/19	34.83	1201.30
				5/15/19	NS	NS
				9/18/19	34.93	1201.20
				11/12/19	34.98	1201.15
				2/3/20	34.25	1201.88
				4/21/20	33.72	1202.41
				7/27/20	33.95	1202.18
				10/28/20	35.25	1200.88
				3/4/21	33.69	1202.44
				4/30/21	34.55	1201.58
				7/29/21	34.44	1201.69
				10/28/21	34.83	1201.30



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-6 Deep	46.00	26 to 46	1,231.64	6/24/14	27.56	1204.08
				8/28/14	NS	NS
				6/30/16	28.12	1203.52
				9/20/16	NS	NS
				6/29/17	27.55	1204.09
				9/28/17	28.62	1203.02
				11/9/17	28.6	1203.04
				12/13/17	NS	NS
				3/19/18	28.26	1203.38
				5/16/18	22.82	1208.82
				9/6/18	NS	NS
				12/11/18	28.10	1203.54
				3/6/19	28.32	1203.32
				5/15/19	27.52	1204.12
				9/18/19	29.50	1202.14
				11/12/19	28.45	1203.19
				2/3/20	27.65	1203.99
				4/21/20	22.27	1209.37
				7/27/20	23.50	1208.14
				10/28/20	28.61	1203.03
				3/4/21	27.69	1203.95
				4/30/21	28.02	1203.62
				7/29/21	27.93	1203.71
				10/28/21	28.44	1203.20
MW-7 Deep	50.00	35 to 50	1,244.14	6/24/14	44.35	1199.79
				8/28/14	NS	NS
				6/30/16	44.22	1199.92
				9/20/16	NS	NS
				6/29/17	IA	IA
				9/28/17	45.08	1199.06
				11/9/17	44.4	1199.74
				12/13/17	NS	NS
				3/19/18	44.18	1199.96
				5/17/18	NS	NS
				9/6/18	44.65	1199.49
				12/11/18	44.56	1199.58
				3/6/19	NS	NS
				5/15/19	NS	NS
				9/18/19	44.70	1199.44
				11/12/19	34.98	1209.16
				2/3/20	44.57	1199.57
				4/21/20	43.73	1200.41
				7/27/20	44.10	1200.04
				10/28/20	44.43	1199.71
				3/4/21	44.75	1199.39
				4/30/21	44.21	1199.93
				7/29/21	45.08	1199.06
				10/28/21	45.08	1199.06



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-8 Deep	51.00	36 to 51	1,239.09	6/24/14	36.91	1202.18
				8/28/14	NS	NS
				6/30/16	37.28	1201.81
				9/20/16	37.98	1201.11
				6/29/17	30.6	1208.49
				9/28/17	32.24	1206.85
				11/9/17	37.07	1202.02
				12/13/17	NS	NS
				3/19/18	37.03	1202.06
				5/16/18	36.78	1202.31
				9/6/18	37.23	1201.86
				12/11/18	36.70	1202.39
				3/6/19	36.72	1202.37
				5/15/19	36.25	1202.84
				9/18/19	32.27	1206.82
				11/12/19	37.08	1202.01
				2/3/20	35.52	1203.57
				4/21/20	36.06	1203.03
				7/27/20	37.20	1201.89
				10/28/20	37.67	1201.42
				3/4/21	36.42	1202.67
				4/30/21	37.25	1201.84
				7/29/21	37.15	1201.94
				10/28/21	37.55	1201.54
MW-10 Deep	50.00	35 to 50	1,239.23	6/24/14	34.45	1204.78
				8/28/14	NS	NS
				6/30/16	33.97	1205.26
				9/20/16	39.87	1199.36
				6/29/17	41.3	1197.93
				9/28/17	NS	NS
				11/9/17	IA	IA
				12/13/17	NS	NS
				3/19/18	33.48	1205.75
				5/16/18	33.73	1205.50
				9/6/18	34.50	1204.73
				12/11/18	31.90	1207.33
				3/6/19	34.83	1204.40
				5/15/19	33.87	1205.36
				9/18/19	34.44	1204.79
				11/12/19	34.44	1204.79
				2/3/20	34.70	1204.53
				4/21/20	32.90	1206.33
				7/27/20	34.10	1205.13
				10/28/20	34.55	1204.68
				3/4/21	33.33	1205.90
				4/30/21	33.34	1205.89
				7/29/21	33.34	1205.89
				10/28/21	33.55	1205.68



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-10S Shallow	30.15	15 to 30	1,243.27	6/24/14	13.79	1229.48
				8/28/14	14.45	1228.82
				6/30/16	15.46	1227.81
				9/20/16	17.56	1225.71
				6/29/17	13.79	1229.48
				9/28/17	NS	NS
				11/9/17	IA	IA
				12/13/17	NS	NS
				3/19/18	13.58	1229.69
				5/17/18	13.57	1229.70
				9/6/18	13.62	1229.65
				12/11/18	12.51	1230.76
				3/6/19	11.52	1231.75
				5/15/19	11.47	1231.80
				9/18/19	14.24	1229.03
				11/12/19	15.67	1227.60
				2/3/20	11.48	1231.79
				4/21/20	10.20	1233.07
				7/27/20	15.00	1228.27
				10/28/20	15.16	1228.11
				3/4/21	11.35	1231.92
				4/30/21	13.56	1229.71
				7/29/21	12.10	1231.17
				10/28/21	15.19	1228.08
MW-12 Deep	50.00	30 to 50	1,241.56	6/24/14	37.95	1203.61
				8/28/14	NS	NS
				6/30/16	36.65	1204.91
				9/20/16	37.28	1204.28
				6/29/17	30.41	1211.15
				9/28/17	37.55	1204.01
				11/9/17	36.54	1205.02
				12/13/17	36.98	1204.58
				3/19/18	37.13	1204.43
				5/17/18	36.43	1205.13
				9/6/18	36.93	1204.63
				12/11/18	36.03	1205.53
				3/6/19	34.32	1207.24
				5/15/19	34	1207.56
				9/18/19	36.18	1205.38
				11/12/19	35.92	1205.64
				2/3/20	33.4	1208.16
				4/21/20	32.2	1209.36
				7/27/20	32.50	1209.06
				10/28/20	36.85	1204.71
				3/4/21	32.28	1209.28
				4/30/21	34.83	1206.73
				7/29/21	35.00	1206.56
				10/28/21	36.33	1205.23



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-12S Shallow	26.55	15 to 27	1,237.47	6/24/14	15.51	1221.96
				8/28/14	17.65	1219.82
				6/30/16	24.55	1212.92
				9/20/16	25.7	1211.77
				6/29/17	21.74	1215.73
				9/28/17	25.03	1212.44
				11/9/17	18.92	1218.55
				12/13/17	19.29	1218.18
				3/19/18	22.88	1214.59
				5/17/18	24.76	1212.71
				9/6/18	18.23	1219.24
				12/11/18	22.3	1215.17
				3/6/19	21.53	1215.94
				5/15/19	19.68	1217.79
				9/18/19	24.15	1213.32
				11/12/19	24.7	1212.77
				2/3/20	18.69	1218.78
				4/21/20	17.7	1219.77
				7/27/20	24.00	1213.47
				10/28/20	25.61	1211.86
				3/4/21	18.47	1219.00
				4/30/21	20.16	1217.31
				7/29/21	24.32	1213.15
				10/28/21	25.29	1212.18
MW-13 Deep	50.00	30 to 50	1,234.87	6/24/14	32.27	1202.60
				8/28/14	NS	NS
				6/30/16	Well Destroyed	
MW-13S Shallow	26.70	15 to 27	1,230.77	6/24/14	13.90	1216.87
				8/28/14	22.34	1208.43
				6/30/16	Well Destroyed	
MW-14S Shallow	30.00	15 to 30	1,231.26	6/24/14	13.15	1218.11
				8/28/14	NS	NS
				6/30/16	Well Destroyed	



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-15S Shallow	30.00	15 to 30	1,232.90	6/24/14	10.58	1222.32
				8/28/14	NS	NS
				6/30/16	13.55	1219.35
				9/20/16	14.62	1218.28
				6/29/17	13.43	1219.47
				9/28/17	14.55	1218.35
				11/9/17	11.68	1221.22
				12/13/17	13.67	1219.23
				3/19/18	12.61	1220.29
				5/17/18	12.22	1220.68
				9/6/18	13.00	1219.90
				12/11/18	11.52	1221.38
				3/6/19	11.40	1221.50
				5/15/19	11.34	1221.56
				9/18/19	13.58	1219.32
				11/12/19	14.25	1218.65
				2/3/20	11.24	1221.66
				4/21/20	11.05	1221.85
				7/27/20	15.30	1217.60
				10/28/20	15.37	1217.53
				3/4/21	10.00	1222.90
				4/30/21	15.12	1217.78
				7/29/21	14.95	1217.95
				10/28/21	15.31	1217.59
MW-16 Deep	60.00	45 to 60	1,233.64	6/24/14	33.58	1200.06
				8/28/14	NS	NS
				6/30/16	44.63	1189.01
				9/20/16	NS	NS
				6/29/17	44.15	1189.49
				9/28/17	45.42	1188.22
				11/9/17	44.84	1188.80
				12/13/17	NS	NS
				3/19/18	37.32	1,196.32
				5/17/18	44.95	1,188.69
				9/6/18	45.00	1,188.64
				12/11/18	45.26	1,188.38
				3/6/19	44.98	1,188.66
				5/15/19	44.62	1,189.02
				9/18/19	45.50	1,188.14
				11/12/19	NS	NS
				2/3/20	44.87	1,188.77
				4/21/20	44.42	1,189.22
				7/27/20	45.80	1,187.84
				10/28/20	46.09	1187.55
				3/4/21	42.72	1190.92
				4/30/21	44.45	1189.19
				7/29/21	45.52	1188.12
				10/28/21	46.04	1187.60



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-17 Deep	55.00	40 to 55	1,231.48	6/24/14	38.95	1192.53
				8/28/14	NS	NS
				6/30/16	Well Destroyed	
MW-18S Shallow	29.80	15 to 30	1,238.82	6/24/14	11.95	1226.87
				8/28/14	13.69	1225.13
				6/30/16	17.60	1221.22
				9/20/16	IA	IA
				6/29/17	14.12	1,224.70
				9/28/17	14.25	1,224.57
				11/9/17	13.85	1,224.97
				12/13/17	13.91	1,224.91
				3/19/18	13.78	1,225.04
				5/17/18	13.5	1,225.32
				9/6/18	13.99	1,224.83
				12/11/18	13.86	1,224.96
				3/6/19	13.1	1,225.72
				5/15/19	12.55	1,226.27
				9/18/19	14.05	1,224.77
				11/12/19	14.47	1,224.35
				2/3/20	12.35	1,226.47
				4/21/20	11.97	1,226.85
				7/27/20	14.40	1224.42
				10/28/20	14.75	1224.07
				3/4/21	12.06	1226.76
				4/30/21	13.47	1225.35
				7/29/21	14.51	1224.31
				10/28/21	14.56	1224.26
MW-19S Shallow	29.72	15 to 30	1,236.17	6/24/14	12.20	1223.97
				8/28/14	12.47	1223.70
				6/30/16	11.65	1224.52
				9/20/16	NS	NS
				6/29/17	12.69	1,223.48
				9/28/17	12.48	1,223.69
				11/9/17	13.38	1,222.79
				12/13/17	NS	NS
				3/19/18	12.87	1,223.30
				5/17/18	14.58	1,221.59
				9/6/18	14.22	1,221.95
				12/11/18	12.37	1,223.80
				3/6/19	12.13	1,224.04
				5/15/19	12.31	1,223.86
				9/18/19	14.80	1,221.37
				11/12/19	14.35	1,221.82
				2/3/20	12.55	1,223.62
				4/21/20	11.45	1,224.72
				7/27/20	15.20	1,220.97
				10/28/20	16.42	1219.75
				3/4/21	11.55	1224.62
				4/30/21	14.49	1221.68
				7/29/21	14.79	1221.38
				10/28/21	15.76	1220.41



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-20S Shallow	29.80	15 to 30	1,231.36	6/24/14	8.05	1223.31
				8/28/14	8.91	1218.63
				6/30/16	12.73	1218.63
				9/20/16	NS	NS
				6/29/17	12.1	1,219.26
				9/28/17	13.76	1,217.60
				11/9/17	11.48	1,219.88
				12/13/17	NS	NS
				3/19/18	12.88	1,218.48
				5/17/18	10.79	1,220.57
				9/6/18	14.46	1,216.90
				12/11/18	9.36	1,222.00
				3/6/19	10.53	1,220.83
				5/15/19	9.72	1,221.64
				9/18/19	12.73	1,218.63
				11/12/19	12.36	1,219.00
				2/3/20	10.55	1,220.81
				4/21/20	9.90	1,221.46
				7/27/20	13.15	1,218.21
				10/28/20	14.39	1216.97
				3/4/21	10.10	1221.26
				4/30/21	14.38	1216.98
				7/29/21	14.27	1217.09
				10/28/21	13.37	1217.99
MW-21S Shallow	30.00	15 to 30	1,226.37	6/24/14	7.00	1219.37
				8/28/14	4.83	1221.54
				6/30/16	NS	NS
				6/29/17	8.39	1217.98
				9/28/17	11.32	1215.05
				11/9/17	8.91	1217.46
				12/13/17	NS	NS
				3/19/18	8.05	1218.32
				5/17/18	7.74	1218.63
				9/6/18	8.30	1218.07
				12/11/18	7.24	1219.13
				3/6/19	6.80	1219.57
				5/15/19	6.42	1219.95
				9/18/19	8.92	1217.45
				11/12/19	9.10	1217.27
				2/3/20	6.85	1219.52
				4/21/20	6.50	1219.87
				7/27/20	8.31	1218.06
				10/28/20	10.86	1215.51
				3/4/21	7.05	1219.32
				4/30/21	8.34	1218.03
				7/29/21	8.04	1218.33
				10/28/21	9.05	1217.32



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-22S Shallow	29.10	15 to 29	1,240.51	6/24/14	13.05	1227.46
				8/28/14	14.48	1224.91
				6/30/16	15.60	1224.91
				9/20/16	NS	NS
				6/29/17	14.82	1,225.69
				9/28/17	15.43	1,225.08
				11/9/17	14.73	1,225.78
				12/13/17	14.83	1,225.68
				3/19/18	14.53	1,225.98
				5/17/18	14.34	1,226.17
				9/6/18	14.73	1,225.78
				12/11/18	14.05	1,226.46
				3/6/19	14.00	1,226.51
				5/15/19	14.05	1,226.46
				9/18/19	13.37	1,227.14
				11/12/19	15.40	1,225.11
				2/3/20	13.54	1,226.97
				4/21/20	13.40	1,227.11
				7/27/20	15.60	1224.91
				10/28/20	15.78	1224.73
				3/4/21	13.45	1227.06
				4/30/21	15.32	1225.19
				7/29/21	15.64	1224.87
				10/28/21	15.77	1224.74
MW-23S Shallow	30.00	13 to 30	1,236.51	6/30/16	18.95	1217.56
				9/20/16	20.13	1216.38
				6/29/17	16.41	1220.10
				9/28/17	NA	NA
				11/9/17	12.44	1224.07
				12/13/17	NS	NS
				3/19/18	13.38	1223.13
				5/17/18	11.10	1225.41
				9/6/18	11.87	1224.64
				12/11/18	12.00	1224.51
				3/6/19	10.37	1226.14
				5/15/19	8.40	1228.11
				9/18/19	14.05	1222.46
				11/12/19	12.54	1223.97
				2/3/20	7.76	1228.75
				4/21/20	5.90	1230.61
				7/27/20	7.85	1228.66
				10/28/20	10.34	1226.17
				3/4/21	0.49	1236.02
				4/30/21	7.35	1229.16
				7/29/21	5.71	1230.80
				10/28/21	11.14	1225.37



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-24S Shallow	25.50	15 to 25.5	1,224.25	6/30/16	13.00	1211.25
				9/20/16	14.91	1209.34
				6/29/17	12.21	1212.04
				9/28/17	15.25	1209.00
				11/9/17	11.90	1212.35
				12/13/17	NS	NS
				3/19/18	11.62	1212.63
				5/17/18	10.91	1213.34
				9/6/18	12.33	1211.92
				12/11/18	11.25	1213.00
				3/6/19	10.53	1213.72
				5/15/19	9.85	1214.40
				9/18/19	12.48	1211.77
				11/12/19	12.30	1211.95
				2/3/20	6.58	1217.67
				4/21/20	9.61	1214.64
				7/27/20	11.16	1213.09
				10/28/20	12.97	1211.28
				3/4/21	9.65	1214.60
				4/30/21	11.08	1213.17
				7/29/21	10.85	1213.40
				10/28/21	15.04	1209.21
MW-25S Shallow	25.00	10 to 25	1,216.55	6/30/16	10.94	1205.61
				9/20/16	13.05	1203.50
				6/29/17	11.80	1204.75
				9/28/17	13.82	1202.73
				11/9/17	9.90	1206.65
				12/13/17	NS	NS
				3/19/18	10.20	1206.35
				5/17/18	11.83	1204.72
				9/6/18	11.56	1204.99
				12/11/18	9.25	1207.30
				3/6/19	9.87	1206.68
				5/15/19	8.53	1208.02
				9/18/19	10.32	1206.23
				11/12/19	10.33	1206.22
				2/3/20	8.70	1207.85
				4/21/20	8.75	1207.80
				7/27/20	12.10	1204.45
				10/28/20	10.10	1206.45
				3/4/21	8.63	1207.92
				4/30/21	9.70	1206.85
				7/29/21	10.35	1206.20
				10/28/21	11.27	1205.28



TABLE 1
GROUNDWATER ELEVATION DATA
FORMER DUNBAR AMOCO
13-17313-01

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
MW-26S Shallow	32.00	17 to 32	1,230.69	6/30/16	12.18	1218.51
				9/20/16	15.64	1215.05
				6/29/17	12.89	1217.80
				9/28/17	13.54	1217.15
				11/9/17	13.25	1217.44
				12/13/17	13.30	1217.39
				3/19/18	11.25	1219.44
				5/16/18	11.25	1219.44
				9/6/18	13.58	1217.11
				12/11/18	12.17	1218.52
				3/6/19	11.20	1219.49
				5/15/19	11.32	1219.37
				9/18/19	14.05	1216.64
				11/12/19	13.70	1216.99
				2/3/20	11.23	1219.46
				4/21/20	10.80	1219.89
				7/27/20	14.40	1216.29
				10/28/20	15.66	1215.03
				3/4/21	10.93	1219.76
				4/30/21	12.43	1218.26
				7/29/21	12.14	1218.55
				10/28/21	13.25	1217.44
MW-27S Shallow	30.00	17 to 30	1,234.43	6/30/16	21.37	1213.06
				9/20/16	21.75	1212.68
				6/29/17	24.90	1209.53
				9/28/17	28.73	1205.70
				11/9/17	IA	IA
				3/19/18	IA	IA
				5/17/18	IA	IA
				9/6/18	IA	IA
				11/12/18	11.30	1223.13
				12/11/18	26.48	1207.95
				3/6/19	28.18	1206.25
				5/15/19	23.67	1210.76
				9/18/19	28.66	1205.77
				11/12/19	28.95	1205.48
				2/3/20	26.90	1207.53
				4/21/20	22.20	1212.23
				7/27/20	28.70	1205.73
				10/28/20	29.65	1204.78
				3/4/21	26.18	1208.25
				4/30/21	11.38	1223.05
				7/29/21	27.94	1206.49
				10/28/21	27.72	1206.71

(2) = Diameter of Well Casing in Inches.

TWD = Total Well Depth in feet below grade.

SI = Screened Interval in feet below grade. DTW = Measured Depth to Groundwater from TOC.

TOC = Top of Well Casing relative to Grade GW ELEV = Calculated Groundwater Elevation.

+ = Approximate feet above grade. NM = Well not measured.

- = Approximate feet below grade. NA = Not Applicable.

TOC = Top of Well Casing.

IA = Inaccessible.

NS = Not Sampled.

6/29/17- Shallow Monitoring well water levels were recorded 7/7/17



Table 2
LNAPL Thickness
Former Dunbar Amoco
13-17313-01

Date		MW-10S			MW-12			MW-12S			MW-15S			MW-18S		
		Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons) ^A	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons) ^A	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons) ^A	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons) ^A	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons) ^A
8/6/2019 VAC EVENT	before	12.2	0	0	34.93	0	0	20.08	0	0	11.63	0	0	13.14	0	0
	during	12.12	0	0	34.94	0	0	20.13	0	0	11.70	0	0	13.53	0	0
	after	11.96	0	0	34.85	0	0	19.87	0	0	11.78	0	0	13.60	0	0
Product Monitoring	9/4/2019	13.1	0	0	35.47	0	1	21.58	0	1	11.88	0	0	IA	IA	IA
	9/18/2019	18.24	0	0	36.18	0	0	24.15	0	0	13.58	0	0	14.65	0	0
	10/15/2019	16.02	sheen	0	25.42	0	0	36.43	0	0	15.29	0	0	14.62	sheen	0
	10/28/2019	16.16	sheen	0	24.78	0	0	36.35	0	0	14.75	0	0	14.57	sheen	1
	11/12/2019	15.67	0	0	24.72	0	NM	35.92	0	0	14.55	0	0	14.47	sheen	0.5
	11/27/2019	15.2	sheen	0	23.82	0	NM	36.07	0	0	14.62	0	0	14.02	sheen	0
	12/10/2019	14.63	0	0	22.64	sheen	NM	34.88	0	0	12.98	0	0	13.91	0	0
	12/24/2019	12.58	0	0	34.42	0	NM	20.27	0.1	0.5	11.55	0	0	13.1	0	0
	1/7/2020	11.7	0	0	30.7	0	0	19.08	sheen	0.5	10.31	0	0	12.46	sheen	0
	1/21/2020	11.7	0	0	32.78	0	0	18.95	0.1	0.3	11.25	0	0	12.42	sheen	0
	2/3/2020	11.48	sheen	0	33.4	0	0	18.69	0.1	0.3	11.24	0	0	12.23	0	0
	2/18/2020	10.34	0	0	32.78	0	0	19.7	0.1	1	12.91	0	0	11.84	0	0
	3/3/2020	10.63	0	0	32.15	0	0	19	sheen	0	11.1	0	0	11.87	0	0
	3/17/2020	11.24	0	0	33.06	0	0	18.9	sheen	0	11.6	0	0	12.23	0	0
	4/14/2020	11.48	0	3	32.8	sheen	3	17.8	sheen	2	11.5	0	2	12.3	sheen	5
	4/21/2020	10.2	0	9	32.2	0	1.3	17.7	sheen	4	11.05	0	9.5	11.97	sheen	9.3
	5/21/2020	11.14	0	0	33.15	0	0	18.75	0	0	12.38	0	0	12.91	0	0
	6/9/2020	13.45	0	0	35.1	0	0	20.7	0	0	13.9	0	0	14.15	0	0
	7/7/2020	15.45	0	0	36.05	0	0	25.05	sheen	0	14.3	0	0	14.42	sheen	0
	7/27/2020	15	sheen	0	32.5	0	0	24	sheen	0	15.3	0	0	14.4	sheen	0
	8/14/2020	15.51	0	0	36.39	0	0	25.78	sheen	0	14.39	0	0	14.62	sheen	0
	9/18/2020	15.24	0	0	36.22	0	0	15.51	sheen	0	14.81	0	0	14.53	sheen	0
	10/19/2020	15.16	0	0	35.46	0	0	24.23	sheen	0	13.81	0	0	14.03	sheen	0
	10/28/2020	15.16	sheen	0	36.85	sheen	0	25.61	sheen	0	15.77	0	0	14.75	sheen	0
	11/17/2020	16.64	sheen	0	35.81	0	0	25.91	0	0	14.36	0	0	14.58	0	0
	12/17/2020	NM	NM	0	36.05	0	0	24.51	0	0	13.52	0	0	14.2	0	0
	1/28/2021	13.53	0.1	0	33.28	sheen	0	21.22	0.2	0	13.31	0	0	14.03	0.2	0
	3/4/2021	11.35	sheen	0	32.28	0	0	18.47	0.1	0	10.00	0	0	12.66	sheen	0
	4/30/2021	13.56	0	0	34.83	0	0	20.16	2.5	5	15.12	0	0	13.47	sheen	8.1
	*6/30/2021	11.88	0	0	34.70	0	0	22.89	sheen	0	13.57	0	0	12.48	0	0
	7/29/2021	12.1	0	0	35.00	sheen	7.4	24.32	0.9	1	14.95	sheen	7.4	14.51	sheen	0
	8/31/2021	12.92	sheen	0	36.59	0	0	23.98	0.9	5	15.89	0	0	14.01	sheen	0
	9/23/2021	12.57	sheen	0	34.91	0	0	20.90	0.9	5	16.09	0	0	14.83	sheen	0
	10/20/2021	15.03	0	0	36.73	0	0	24.98	0.8	2.3	16.16	0	0	15.17	0	0
	11/30/2021	14.85	0	0	34.23	0	0	24.73	0.6	1.2	15.04	0	0	14.72	0	0
	12/28/2021	14.68	sheen	0	23.81	0	0	25.03	0.6	0.9	14.49	0	0	14.14	0	0

Notes:
 NM: not measured
 LNAPL measured in inches
 NA: Not applicable
^AProduct mixed with water, bailed until no visual sheen
 IA: inaccessible
^{*}Socks were removed during May 2021 to allow LNAPL to recover in wells.



Table 2
LNAPL Thickness
Former Dunbar Amoco
13-17313-01

		MW-225			MW-265			MW-275			RW-1			RW-2		
Date		Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons)^	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons)^	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons)^	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons)^	Depth to Water (feet)	LNAPL Thickness (Inches)	Volume Bailed (gallons)^
8/6/2019 VAC EVENT	before	14.49	0	0	11.77	0	0	27.80	0	0	24.32	0.1	0	14.81	0	0
	during	14.55	0	0	11.75	0	0	27.10	0	0	24.04	0	0	14.54	0	0
	after	14.59	0	0	11.88	0	0	27.10	0	0	24.38	0	0	14.89	0	0
Product Monitoring	9/4/2019	14.8	0	0	11.9	0	0	26.54	0	0	24.55	0	0	14.76	0	0
	9/18/2019	15.37	0	0	14.05	0	0	28.66	0	0	24.64	0	0	16.34	0	0
	10/15/2019	15.49	0	0	18.92	0	0	28.92	0	0	24.66	0	0	16.7	0	0
	10/28/2019	15.47	0	0	15.84	0	0	28.66	0	0	24.75	0	0	16.1	0	0
	11/12/2019	15.4	0	0	13.7	0	0	28.95	0	0	24.7	0	0	15.43	0	0
	11/27/2019	15.21	0	0	13.36	0	0	29.08	0	0	25.27	sheen	0	16.15	0	0
	12/10/2019	15.1	sheen	0	12.64	0	0	28.45	0	0	24.43	sheen	0	14.44	0	0
	12/24/2019	14.15	0	0	11.74	0	0	27.9	0	0	23.69	0.7	0.5	13.85	0	0
	1/7/2020	13.47	sheen	0	IA	IA	IA	27.18	0	0	20.8	0.1	0.75	13.3	0	0
	1/21/2020	13.34	sheen	0	11.3	0	0	30.15	IA	IA	22.78	0.1	0.5	13.25	0	0
	2/3/2020	13.54	0	0	11.23	0	0	26.9	0	0	19.62	0.1	0.5	13.25	0	0
	2/18/2020	12.6	0	0	10.84	0	0	26.35	0	0	23.12	1.2	1	12.77	0	0
	3/3/2020	12.95	0	0	11	0	0	25.95	0	0	22.45	0.1	0.25	12.85	0	0
	3/17/2020	13.1	0	0	11.2	0	0	24.51	0	0	23.45	sheen	0	13.02	0	0
	4/14/2020	13	sheen	5	11.1	0	2	15	0	2	22.8	2.4	5	13.2	sheen	5
	4/21/2020	13.4	sheen	8.9	10.80	0	10	22.2	0	1.5	NM	NM	0	NM	NM	0
	5/21/2020	14.3	0	0	11.30	0	0	20.89	0	0	22.71	sheen	0	14.13	0	0
	6/9/2020	15.35	0	0	12.50	0	0	27.4	0	0	24.15	sheen	0	16.1	0	0
	7/7/2020	15.55	0	0	14.45	0	0	28.87	0	0	22.05	sheen	0	11.8	0	0
	7/27/2020	15.6	sheen	0	14.40	0	0	28.7	0	0	NM	NM	0	NM	NM	0
	8/14/2020	15.67	0	0	14.59	0	0	29.07	0	0	22.61	sheen	0	17.05	0	0
	9/18/2020	15.63	sheen	0	14.51	0	0	28.84	0	0	22.22	sheen	0	16.63	0	0
	10/19/2020	14.94	sheen	0	13.36	0	0	28.49	0	0	24.22	sheen	0	15.01	0	0
	10/28/2020	15.78	sheen	0	15.66	0	0	29.65	0	0	NM	NM	0	NM	NM	0
	11/17/2020	14.78	0	0	14.40	0	0	29.23	0	0	22.05	0	0	16.12	0	0
	12/17/2020	15.47	0	0	12.93	0	0	28.87	0	0	IA	IA	0	14.8	0	0
	12/21/2020	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	20.67	0	0	N/A	N/A	0
	1/28/2021	15.58	0.1	0	12.59	0	0	29.37	sheen	0	20.48	1	0	14.91	sheen	0
	3/4/2021	13.45	sheen	0	10.93	0	0	26.18	0	0	19.65	0.4	0	13.25	0	0
	4/30/2021	15.32	sheen	7.5	12.43	0	0	28.88	0	0	17.43	4.7	8	14.80	0	0
	*6/30/2021	14.32	0.6	0.3	11.54	0	0	27.15	0	0	18.32	1	0.8	14.13	0.6	0
	7/29/2021	15.64	sheen	7.1	12.14	0	0	27.94	0	0	19.16	1.3	8	14.45	0	0
	8/31/2021	15.42	0	0	13.83	0	0	27.71	0	0	21.9	1.3	10	14.84	0	0
	9/23/2021	15.12	sheen	0	12.77	0	0	27.94	0	0	21.14	0.9	5.0	14.04	0	0
	10/20/2021	16.23	sheen	0	14.46	0	0	28.78	0	0	22.43	0.8	4.5	16.77	0	0
	11/30/2021	16.24	sheen	0	13.98	0	0	28.24	0	0	24.95	0.84	4	16.68	0	0
	12/28/2021	15.33	sheen	0	13.04	0	0	27.40	0	0	24.33	0.84	3.8	14.34	0	0

Notes:

NM: not measured

LNAPL measured in inches

NA: Not applicable

^Product mixed with water, bailed until no visual sheen

IA: inaccessible

*Socks were removed during May 2021 to allow LNAPL to recover in wells.



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-3	6/24/2014	5.13	1.07	7.97	16.3	1.79	5.98	1.1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	<1	<1	<1	<2	<1	12.4	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	<1	<1	<1	<2	<1	<1	<1
	9/28/2017	<1	<1	<1	<2	<1	16	<1
	11/9/2017	<1	<1	<1	<2	<1	<1	<1
	3/19/2018	<1	<1	<1	<2	<1	4.97	<1
	5/16/2018	<1	<1	<1	<2	<1	<1	<1
	9/6/2018	1.19	1.07	<1	7.98	<1	10.1	<1
	12/11/2018	18	57	16	86	<2	<2	3.4
	3/6/2019	<2	<2	<2	<6	<2	<2	<2
	5/14/2019	<2	<2	<2	<6	<2	<2	<2
	9/24/2019	61	29	15	74	<2	10	<2
	11/13/2019	<1	<1	<1	<2	<1	<1	<1
	2/3/2020	1.05	1.03	1.23	5.2	<1	<1	<1
	4/21/2020	<1	<1	<1	<2	<1	<1	<1
	7/27/2020	5.98	1.03	4.62	3.72	<1	9.03	1
	10/28/2020	<1	<1	<1	<2	<1	<1	<1
	3/4/2021	<1	<1	7.24	6	1.44	<1.0	1.14
	4/30/2021	<1.55	<5	<5	<10	<5	<5	<5
	7/29/2021	<1	1.02	<1	<2	<1	3.22	<1
	10/28/2021	37.9	30.7	61.3	177	5.49	<1	9.92
MW-4	6/24/2014	<1	<1	<1	<2	<1	1.23	<1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	NS	NS	NS	NS	NS	NS	NS
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	NS	NS	NS	NS	NS	NS	NS
	9/28/2017	NS	NS	NS	NS	NS	NS	NS
	11/9/2017	<1	<1	<1	<2	<1	4.18	<1
	3/19/2018	NS	NS	NS	NS	NS	NS	NS
	5/16/2018	NS	NS	NS	NS	NS	NS	NS
	9/6/2018	<1	<1	<1	<2	<1	<1	<1
	12/11/2018*	<2	<2	<2	<6	<2	<2	<2
	3/6/2019	NS	NS	NS	NS	NS	NS	NS
	5/14/2019	NS	NS	NS	NS	NS	NS	NS
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-6	6/24/2014	<1	<1	<1	<2	<1	<1	<1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	<1	<1	<1	<2	<1	<1	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	<1	<1	<1	<2	<1	<1	<1
	9/28/2017	<1	<1	<1	<2	<1	<1	<1
	11/9/2017	<1	<1	<1	<2	<1	<1	<1
	3/19/2018	<1/<1	<1/<1	<1/<1	<2/<2	<1/<1	<1/<1	<1/<1
	5/16/2018	<1	<1	<1	<2	<1	<1	<1
	9/6/2018	NS	NS	NS	NS	NS	NS	NS
	12/11/2018	4.5	21	6.8	36	<2	<2	<2
	3/6/2019	<2	3.7	<2	8.5	<2	<2	<2
	5/14/2019	<2	<2	<2	<6	<2	<2	<2
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS
MW-7	6/24/2014	<1	<1	<1	<2	<1	1.53	<1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	<1	<1	<1	<2	<1	8.96	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	NS	NS	NS	NS	NS	NS	NS
	9/28/2017	<1	<1	<1	<2	<1	5.26	<1
	11/9/2017	<1	<1	<1	<2	<1	6.11	<1
	3/19/2018	<1	<1	<1	<2	<1	6.59	<1
	5/16/2018	NS	NS	NS	NS	NS	NS	NS
	9/6/2018	<1	<1	<1	<2	<1	8.61	<1
	12/12/2018	<2	<2	<2	<2	<2	2.1	<2
	3/6/2019	<2	3.7	<2	8.5	<2	<2	<2
	5/14/2019	NS	NS	NS	NS	NS	NS	NS
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-8	6/24/2014	<1	<1	<1	<2	<1	<1	<1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	<1	<1	<1	<2	<1	<1	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	<1	<1	<1	<2	<1	<1	<1
	9/28/2017	<1	<1	<1	<2	<1	<1	<1
	11/9/2017	<1	1.32	<1	<2	<1	<1	<1
	3/19/2018	<1	<1	<1	<2	<1	<1	<1
	5/16/2018	<1	<1	<1	<2	<1	<1	<1
	9/6/2018	<1	<1	<1	<2	<1	<1	<1
	12/11/2018	11	46	13	71	<2	<2	2.4
	3/6/2019	<2	<2	<2	<6	<2	<2	<2
	5/14/2019	<2	<2	<2	<6	<2	<2	<2
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS
MW-10	6/24/2014	<1/<1	<1/<1	<1/<1	<2/<2	<1/<1	8.96/13	<1/<1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	1.03	1.59	<1	<2	<1	9.42	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	<1	1.2	<1	<2	<1	6.6	<1
	9/28/2017	NS	NS	NS	NS	NS	NS	NS
	11/9/2017	NS	NS	NS	NS	NS	NS	NS
	3/19/2018	2.45	<1	2.09	4.63	1.01	3.96	2.55
	5/16/2018	<2	<1	<1	<2	<1	6.3	<1
	9/6/2018	<1	<1	<1	<2	<1	9.13	<1
	12/12/2018	13	46	15	73	<2	7.5	2.9
	3/6/2019	<2	<2	<2	<6	<2	7	<2
	5/14/2019	<2	<2	<2	<6	<2	5.8	<2
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
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Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-10S	6/24/2014	164	88.1	476	1060	112	7	196
	8/28/2014	658	48.1	680	176	130	54.9	256
	6/30/2016	142	11.5	252	20.5	41.5	15.1	68
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	20	<5	36	<10	19	<5	9.9
	9/28/2017	NS	NS	NS	NS	NS	NS	NS
	11/9/2017	NS	NS	NS	NS	NS	NS	NS
	3/19/2018	49.9	<10	190	27.8	45.8	<10	53.3
	5/17/2018	27.6 / 35.3	<5 / 4.03	89 / 107	<10 / 9.37	31.9 / 37.3	<5 / 1.98	24.8 / 30.4
	9/6/2018	27.4	<5	77.2	<10	29.2	<5	23.8
	12/12/2018	16	15	31	30	17	<2	9.9
	3/6/2019	6	<2	37	<6	25	<2	18
	5/14/2019	7.7	<2	23	<6	18	<2	12
	9/18/2019	58	9.2	160	24	76	4.6	68
	11/12/2019	33.8	6.2	66.4	<10	36.4	<1.75	47.9
	2/3/2020	6.35	<5	32	<10	26	<1.75	13.4
	4/21/2020	4.4	<5.00	5.65	<10.0	<10.0	<1.75	<5.00
	7/27/2020	48.7	6.48	49.7	14.9	28.4	<1	17.8
	10/28/2020	53	7.98	57	15.1	42.2	5.24	59.6
	3/4/2021	7.17	<1	30.5	5.19	34.6	<1	20.2
	4/30/2021	<1	<1	4.25	2.6	<1	<1	1.42
	7/29/2021	23.2	3.05	25.5	6.36	18	1.53	12.1
	10/28/2021	50.8	7.95	53.2	17.5	45.1	<1	40.7
MW-12	6/24/2014	163	6.1	39.6	22.6	13.8	186	12.4
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	137/127	<25/<25	<25/<25	<50/<50	<25/<25	159/154	<25/<25
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	119 / 120	3.9 / 3.9	<1 / <1	4.6 / 4.5	12 / 11	114 / 114	7.6
	9/28/2017	161	<10	<10	<20	10.3	87.6	<10
	11/9/2017	78.8	<5	<5	<10	<5	68.1	<5
	3/19/2018	85.6	<10	<10	<20	<10	102	<10
	5/17/2018	14.5	<5	<5	<10	<5	99.8	<5
	9/6/2018	1.88	<1	<1	<2	<1	88.3	<1
	12/12/2018	<2	<2	<2	<6	<2	83	<2
	3/6/2019	<2	<2	<2	<6	<2	82	<2
	5/14/2019	<2	<2	<2	<6	<2	92	<2
	9/18/2019	<2/<2	<2/<2	<2/<2	<6/<6	<2/<2	74 / 80	<2/<2
	11/13/2019	<1.55	<5	<5	<10	<5	50.3	<5
	2/3/2020	<1	<1	<1	<1	<1	84.2	<1
	4/21/2020	<1.00	<1.00	<1.00	<2.00	<1.00	83.1	<1.00
	7/27/2020	<1	<1	<1	<2	<1	52.8	1.62
	10/28/2020	<1	<1	<1	<2	<1	50.7	<1
	3/4/2021	<1.55	<5	<5	<10	<5	25.1	<5
	4/30/2021	<1.55	<5	<5	<5	<5	6.15	<5
	7/29/2021	<1	<1	<1	<2	<1	31.2	<1
	10/28/2021	<1	<1	<1	<2	<1	38	<1



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
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Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-12S	6/24/2014	751	67	938	565	228	90.5	558
	8/28/2014	2,050/852	267/<100	787/801	888/440	132/154	123/102	381/411
	6/30/2016	972	48	346	79.8	69	121	<25
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	619	34.7	313	141	71.6	132	169
	9/28/2017	815	40.8	417	153	106	<10	241
	11/9/2017	619	46.2	444	158	62.2	<10	226
	3/19/2018	494	41.1	287	142	59.4	142	171
	5/17/2018	526	51.2	319	177	65.6	192	162
	9/6/2018	333	32.9	202	164	64.9	138	172
	12/12/2018	460	52	150	260	51	140	150
	3/6/2019	490	50	130	300	30	130	220
	5/14/2019	470	52	240	210	46	170	220
	9/18/2019	450	55	410	200	87	88	190
	11/13/2019	308	33.9	126	103	17.1	<3.5	136
	2/3/2020	273	40.2	152	123	55.2	122	199
	4/21/2020	293	39.5	162	146	36.5	152	151
	7/27/2020	141	15	47	53.8	6.1	18.9	65
	10/28/2020	35.8	7.5	58.5	<10.0	9.85	33.3	46
	3/4/2021	303	28.8	210	93.7	47.5	184	200
	4/30/2021	177	24.8	168	81.1	26.7	<10	188
	7/29/2021	498	72.5	818	245	226	76	444
	10/28/2021	260/238	41/38.5	369/366	78.2/75.2	40.5/46.2	<8.75/<8.75	160/182
MW-13	6/24/2014	38.8	4.16	34.8	26.5	4.84	34.6	4.06
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	Well Destroyed						
MW-13S	6/24/2014	188	47.2	564	237	69.5	40.7	172
	8/28/2014	599	68.6	740	418	111	74.1	206
	6/30/2016	Well Destroyed						
MW-14	6/24/2014	150	7.6	52.2	15.2	13	29.7	11.7
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	Well Destroyed						



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
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Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-15S	6/24/2014	26.9	1.85	4.15	5.52	<1	13.3	1.3
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	236	40	95.3	232	21.9	113	66.7
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	20	<1	<1	2.7	<1	6.5	1.2
	9/28/2017	302	35.7	136	194	26.6	303	87.4
	11/9/2017	49.4	<10	<10	<20	<10	<10	<10
	3/19/2018	13.9	<1	1.41	3.42	<1	3.68	2.15
	5/17/2018	20.9	1.47	<1	<2	<1	6.73	1.02
	9/6/2018	10.1	<1	<1	<2	<1	3.66	1.17
	12/11/2018	49	26	7.6	32	<2	17	3.6
	3/6/2019	10	<2	<2	<6	<2	6.7	<2
	5/14/2019	9.4	<2	<2	<6	<2	3.1	<2
	9/18/2019	160	11	<2	24	8.4	42	18
	11/13/2019	167	14.8	34	68.4	13.9	106	52
	2/3/2020	9.32	<1	<1	<1	<1	5.35	<1
	4/21/2020	2.63	<1.00	<1.00	<2.00	<1.00	1.79	<1.00
	7/27/2020	101	12.4	27.6	48.6	6.49	79.7	16.8
	10/28/2020	71	7.37	5.9	23.1	5.77	71.8	26.6
	3/4/2021	22.2	<5	<5	<10	<5	11.4	5.8
	4/30/2021	122/118	18.3/17.8	56.6/57	92.2/95	11.1/10.8	82.3/78.6	46.3/47.9
	7/29/2021	74.5	11.1	26.2	53.1	6.18	18.4	20
	10/28/2021	53.6	28.2	68.6	155	13.7	64.4	39.8
MW-16	6/24/2014	<1	<1	<1	<2	<1	<1	<1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	<1	<1	<1	<2	<1	<1	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	<1	<1	<1	<2	<1	<1	<1
	9/28/2017	<1	<1	<1	<2	<1	<1	<1
	11/9/2017	<1	<1	<1	<2	<1	<1	<1
	3/19/2018	1.78	<1	<1	<2	<1	<1	<1
	5/17/2018	<1	<1	<1	<2	<1	<1	<1
	9/6/2018	<1	<1	<1	<2	<1	<1	<1
	12/11/2018	12	47	13	68	<2	<2	3.2
	3/6/2019	2.1	8.1	2.4	8.7	13	<2	<2
	5/14/2019	<2	<2	<2	9.4	<2	<2	<2
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-17	6/24/2014	<1	<1	<1	<2	<1	<1	<1
	8/28/2014	NS	NS	NS	NS	NS	NS	NS
	6/30/2016	Well Destroyed						
MW-18S	6/24/2014	984	213	878	1120	182	310	365
	8/28/2014	554	149	884	2600	120	134	206
	6/30/2016	231	41.8	547	650	80.8	60.2	177
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	160	25.6	449	310	77.4	35.2	83.5
	9/28/2017	225 / 199	<50 / <25	588 / 523	280 / 246	100 / 90.8	<50 / 57.0	67 / 65.8
	11/9/2017	201	39.2	794	528	120	73	143
	3/19/2018	280	<50	462	699	79.5	67	108
	5/17/2018	204	<50	316	454	<50	58	65
	9/6/2018	157	30.8	500	349	80.5	53.2	90.9
	12/12/2018	190 / 190	48 / 44	570 / 530	400 / 350	100 / 94	56 / 56	120 / 110
	3/6/2019	260	94	630	760	94	63	140
	5/14/2019	120	35	480	570	62	46	82
	9/18/2019	200	43	150	380	150	72	82
	11/13/2019	192	43.5	664	653	84.3	92.3	152
	2/3/2020	98	<25	463	262	141	35.7	104
	4/21/2020	107	25.1	455	457	78.8	32	95
	7/27/2020	159	28	266	224	48	110	74.3
	10/28/2020	249	37.4	415	398	57	171	134
	3/4/2021	133	24.5	315	225	49.9	55.5	92.3
	4/30/2021	40.7	<10	117	63.2	30.7	30.4	32.3
	7/29/2021	115	14.9	225	67.5	56.4	58	62.1
	10/28/2021	178	46.5	332	315	48.6	<5	76.4



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-19S	6/24/2014	23.5	<1	<1	<2	<1	167	<1
	8/28/2014	10.4	<2	<2	<4	<2	16.1	<2
	6/30/2016	39.4	<1	<1	<2	<1	64.3	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	2.9	<1	<1	<2	<1	146	<1
	9/28/2017	7.93	<1	<1	<2	<1	255	<1
	11/9/2017	13	<5	<5	<10	<5	224	<5
	3/19/2018	6.13	<1	<1	<2	<1	108	<1
	5/17/2018	9.44	<1	<1	<2	<1	127	<1
	9/6/2018	<1	<1	<1	<2	<1	72.2	<1
	12/12/2018	<2	<2	<2	<6	<2	110	<2
	3/6/2019	<2	<2	<2	<6	<2	130	<2
	5/14/2019	<2	<2	<2	<6	<2	32	<2
	9/18/2019	<2	<2	<2	<6	<2	170	<2
	11/13/2019	<1.55	<5	<5	<10	<5	116	<5
	2/3/2020	<1	<1	<1	<1	<2	42.8	<1
	4/21/2020	<1.00	<1.00	<1.00	<2.00	<1.00	80.8	<1.00
	7/27/2020	<1	<1	<1	<2	<1	75.8	2.41
	10/28/2020	<1	<1	<1	<2	<1	16.3	3.03
	3/4/2021	<1	<1	<1	<2	<1	76.3	1.4
	4/30/2021	<1.55	<5	<5	<10	<5	78.2	<5
	7/29/2021	1.43	<1	2.25	<2	<1	80.5	<1
	10/28/2021	25.7	22.1	25.1	122	1.29	85.9	5.04
MW-20S	6/24/2014	29	<1	<1	<2	<1	114	<1
	8/28/2014	15.3	<2	<2	<4	<2	75.1	<2
	6/30/2016	65.4	<1	<1	<2	1.38	119	<1
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	49	<1	<1	2.4	<1	94.3	<1
	9/28/2017	42.5	<1	<1	<2	<1	109	<1
	11/9/2017	19.5	<1	<1	<2	<1	46.8	<1
	3/19/2018	21.6	<1	<1	<2	<1	60.4	1.14
	5/17/2018	49.1	<1	1	5.04	1.38	77.1	3.99
	9/6/2018	154	3.58	4.29	24.9	3.89	140	9.47
	12/12/2018	32	18	6.3	35	<2	61	4.8
	3/6/2019	33	<2	<2	<6	<2	85	3.8
	5/14/2019	57	<2	<2	8.6	2.4	85	8.1
	9/18/2019	39	<2	<2	<6	<2	130	<2
	11/13/2019	29.8	<1	<1	<2	<1	97.4	<1
	2/3/2020	30.2	<1	<1	2.34	<1	76.1	1.82
	4/21/2020	<1.00	<1.00	<1.00	<2.00	<1.00	1.42	<1.00
	7/27/2020	52.1	<1	<1	3.03	1.06	88.2	2.18
	10/28/2020	85.4	1.14	<1	4.55	2.5	170	4.41
	3/4/2021	<1	<1	<1	<2	<1	1.12	<1
	4/30/2021	<1.55	<5	<5	<10	<5	6.7	<5
	7/29/2021	43.7	1.64	6.67	6.56	2.17	93.2	2.36
	10/28/2021	22.6	9.88	12.3	61.1	<1	111	2.97



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
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Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-21S	6/24/2014	9.41	<1	<1	<2	<1	19.1	<1
	8/28/2014	<1	<1	<1	<2	<1	<1	<1
	6/30/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	4.7	<1	<1	<2	2.3	18.6	<1
	9/28/2017	8.14	<1	<1	<2	<1	11.2	<1
	11/9/2017	3.99/ 4.06	<1	<1	<2	<1	8.56 / 9.14	<1
	3/19/2018	5.15	<5	<5	<10	<5	14.7	<5
	5/17/2018	3.19	<1	<1	<2	<1	13.5	<1
	9/6/2018	3.32	<1	<1	<2	<1	10	<1
	12/11/2018	5.2	19	6.5	35	<2	6.3	<2
	3/6/2019	13	<2	<2	<6	<2	8.5	<2
	5/14/2019	12	<2	<2	<6	<2	12	<2
	9/18/2019	9.1	<2	<2	<6	<2	12	<2
	11/13/2019	4.08	<1	<1	<2	<1	7.65	<1
	2/3/2020	3.66	<1	<1	<2	<1	7.07	<1
	4/21/2020	3.51	<1.00	<1.00	<2.00	<1.00	7.75	<1.00
	7/27/2020	4.21	<1	1.89	2.47	<1	8.37	<1
	10/28/2020	<1	<1	<1	<2	<1	<1	<1
	3/4/2021	<1	<1	<1	<2	<1	2.37	<1
	4/30/2021	1.84	<1	<1	<2	<1	7.42	<1
	7/29/2021	2.32	<1	2.07	<2	<1	7.3	<1
	10/28/2021	7.59	6.6	10	49.2	<1	7.78	1.79
MW-22S	6/24/2014	1280	63	234	373	71.1	154	163
	8/28/2014	585	48	332	420	61	163	147
	6/30/2016	110	14.5	118	117	37.9	30.5	47
	9/20/2016	NS	NS	NS	NS	NS	NS	NS
	6/29/2017*	95	13	150	70	44	24	30
	9/28/2017	129	<10	229	<20	61.3	<10	11.2
	11/9/2017	115	19.6	289	106	76.3	41.1	44
	3/19/2018	105	10.6	69.6	40.8	19.4	28.5	16.6
	5/17/2018	110	17.8	137	74.7	42.3	34.3	39.8
	9/6/2018	86.4	19.4	115	95.7	55.2	32.1	52.2
	12/12/2018	150	26	190	90	59	38	58
	3/6/2019	210	23	160	87	54	71	49
	5/14/2019	120 /100	22 /19	210 /180	94 /78	61 /50	30 /39	65 /58
	9/18/2019	240	48	640	450	130	57	140
	11/13/2019	210	37.6	446	273	79.4	56.6	130
	2/3/2020	153	11.1	125	25.4	40.4	70.7	40.6
	4/21/2020	260	12.9	69.4	21.6	31.3	83.4	32
	7/27/2020	218	38	354	220	58.1	58.4	95.4
	10/28/2020	122	10.4	146	16.4	37	53.2	38.6
	3/4/2021	352	17.4	31.6	12.8	12.6	199	11.4
	4/30/2021	150	20.6	245	75.7	44.7	48.8	83
	7/29/2021	103	25.1	170	70.3	69.3	31.1	78.5
	10/28/2021	146	35.7	282	193	48	<5	82.9



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-23S	6/30/2016	<1	<1	<1	<2	<1	<1	<1
	9/20/2016	<1/<1	<1/<1	<1/<1	<2/<2	<1/<1	2.0/1.9	<1/<1
	6/29/2017*	<1	<1	<1	<2	<1	<1	<1
	9/28/2017	<1	<1	<1	<2	<1	<1	<1
	11/9/2017	<1	<1	<1	<2	<1	<1	<1
	3/19/2018	<1	<1	<1	<2	<1	<1	<1
	5/17/2018	<1	<1	<1	<2	<1	<1	<1
	9/6/2018	<1	<1	<1	<2	<1	<1	<1
	12/12/2018	<2	<2	<2	<6	<2	<2	2.3
	3/6/2019	<2	<2	<2	<6	<2	<2	<2
	5/14/2019	<2	<2	<2	<6	<2	<2	<2
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS
MW-24S	6/30/2016	<1	<1	<1	<2	<1	25.9	<1
	9/20/2016	<1	<1	<1	<2	<1	20.2	<1
	6/29/2017*	<1	<1	<1	<2	<1	13	<1
	9/28/2017	<1	<1	<1	<2	<1	9.9	<1
	11/9/2017	<1	<1	<1	<2	<1	<1	<1
	3/19/2018	<1	<1	<1	<2	<1	5.69	<1
	5/17/2018	<1	<1	<1	<2	<1	2.13	<1
	9/6/2018	<1	<1	<1	<2	<1	2.74	<1
	12/12/2018	5	25	8	42	<2	5.5	<2
	3/6/2019	<2	<2	<2	<6	<2	<4	<2
	5/14/2019	<2	<2	<2	<6	<2	3.5	<2
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-25S	6/30/2016	<1	<1	<1	<2	<1	17.5	<1
	9/20/2016	<1	<1	<1	<2	<1	15.7	<1
	6/29/2017*	<1	<1	<1	<2	<1	16.6	<1
	9/28/2017	<1	<1	<1	<2	<1	15.9	<1
	11/9/2017	<1	<1	<1	<2	<1	13.2	<1
	3/19/2018	<1	<1	<1	<2	<1	15	<1
	5/17/2018	<1	<1	<1	<2	<1	15	<1
	9/6/2018	<1	<1	<1	<2	<1	14	<1
	12/11/2018	6.5	28	8.4	44	<2	14	<2
	3/6/2019	<2	<2	<2	<6	<2	14	<2
	5/14/2019	<2	<2	<2	<6	<2	16	<2
	9/18/2019	NS	NS	NS	NS	NS	NS	NS
	11/13/2019	NS	NS	NS	NS	NS	NS	NS
	2/3/2020	NS	NS	NS	NS	NS	NS	NS
	4/21/2020	NS	NS	NS	NS	NS	NS	NS
	7/27/2020	NS	NS	NS	NS	NS	NS	NS
	10/28/2020	NS	NS	NS	NS	NS	NS	NS
	3/4/2021	NS	NS	NS	NS	NS	NS	NS
	4/30/2021	NS	NS	NS	NS	NS	NS	NS
	7/29/2021	NS	NS	NS	NS	NS	NS	NS
	10/28/2021	NS	NS	NS	NS	NS	NS	NS
MW-26S	6/30/2016	6	<5	<5	<10	<5	7.3	<5
	9/20/2016	2.61	<1	<1	<2	2.74	8.88	<1
	6/29/2017*	<1	<1	<1	<2	1.3	4.4	<1
	9/28/2017	1.11	1.97	<1	<2	<1	7.17	<1
	11/9/2017	2.1	<1	<1	<2	7.21	6.71	<1
	3/19/2018	1.41	<1	1.27	<2	3.4	6.16	1.1
	5/16/2018	<1	<1	<1	<2	<1	3.81	<1
	9/6/2018	<1	<1	<1	<2	<1	4.64	<1
	12/11/2018	2.5	13	5.1	27	<2	3.4	<2
	3/6/2019	5.3	4.2	9.1	8.9	5.2	5.4	<2
	5/14/2019	2.5	<2	<2	<6	<2	5.3	<2
	9/18/2019	<2	<2	<2	<6	<2	5.6	<2
	11/13/2019	<1	<1	<1	<2	<1	5.61	<1
	2/3/2020	<1	<1	<1	<2	1.27	4.25	<1
	4/21/2020	1.54	<1.00	1.55	<2.00	1.96	4.64	<1.00
	7/27/2020	7.85	1.25	4.66	7.42	2.38	8.92	<1
	10/28/2020	<1	<1	<1	<2	<1	2.9	<1
	3/4/2021	<1	<1	<1	<2	<1	3.71	<1
	4/30/2021	<1	<1	<1	<2	<1	5.82	<1
	7/29/2021	1.49	<1	4.97	2.07	1.1	3.53	<1
	10/28/2021	18.7	18.2	21	101	1.05	7.69	3.17



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
MW-27S [^]	6/30/2016	<1	<1	<1	<2	<1	27.8	<1
	9/20/2016	<1	<1	<1	<2	<1	10.6	<1
	6/29/2017*	<1	<1	<1	<2	<1	26	<1
	9/28/2017	<1	<1	<1	<2	<1	29.5	<1
	11/9/2017	Under large gravel pile, could not access						
	3/19/2018	Under large gravel pile, could not access						
	5/17/2018	Under large gravel pile, could not access						
	11/12/2018	<2	<2	<2	<6	<2	35	<2
	12/12/2018	<2	<2	<2	<6	<2	19	<2
	3/6/2019	<2	<2	<2	<6	<2	<2	<2
	5/14/2019	<2	<2	<2	<6	<2	<2	<2
	9/18/2019	<2	<2	<2	<6	<2	<2	<2
	11/13/2019	<1	<1	<1	<2	<1	<1	<1
	2/3/2020	<1	<1	<1	<2	<1	<1	<1
	4/21/2020	<1.00	<1.00	<1.00	<2.00	<1.00	1.46	<1.00
	7/27/2020	2.49	<1	1.74	<2	<1	2.28	<1
	10/28/2020	<1	<1	<1	<2	<1	<1	<1
	3/4/2021	<1	<1	<1	<2	<1	<1	<1
	4/30/2021	<1	<1	<1	<2	<1	<1	<1
	7/29/2021	<1	<1	<1	<2	<1	26.5	<1
	10/28/2021	<1	<1	<1	<2	<1	<1	<1
POND	6/30/2016	<1	<1	<1	<2	<1	<1	<1
	9/20/2016	<1	<1	<1	<2	<1	<1	<1
	9/28/2017	<1	<1	<1	<2	<1	<1	<1
	11/9/2017	<1	<1	<1	<2	<1	<1	<1
	3/19/2018	<1	<1	<1	<2	<1	<1	<1
	5/16/2018	<1	6.7	<1	<2	<1	<1	<1
	9/6/2018	<1	<1	<1	<2	<1	<1	<1
	12/12/2018	<2	<2	<2	<6	<2	<2	<2
	3/6/2019	NS	NS	NS	NS	NS	NS	NS
	5/14/2019	<2	<2	<2	<6	<2	<2	<2
	9/18/2019	<2	<2	<2	<6	<2	<2	<2
	11/13/2019	<1	<1	<1	<2	<1	<1	<1
	2/3/2020	<1	<1	<1	<2	<1	<1	<1
	4/21/2020	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
	7/27/2020	<1	<1	<1	<2	<1	<1	<1
	10/28/2020	<1	<1	<1	<2	<1	<1	<1
	3/4/2021	<1	<1	<1	<2	<1	<1	<1
	4/30/2021	<1	<1	<1	<2	<1	<1	<1
	7/29/2021	<1	<1	<1	<2	<1	<1	<1
	10/28/2021	<1	<1	<1	<2	<1	<1	<1



TABLE 3
Groundwater Analytical Summary Table
Former Dunbar Amoco
13-17313-01

Monitoring Well ID								
	RMSC	5	1,000	700	10,000	1,100	20	100
	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene**	MTBE	Naphthalene
Trip Blank	6/24/2014	<1	<1	<1	<2	<1	<1	<1
	8/28/2014	<1	<1	<1	<2	<1	<1	<1
	6/30/2016	<1	<1	<1	<2	<1	<1	<1
	9/20/2016	<1	<1	<1	<2	<1	<1	<1
	6/29/2017*	<1	<1	<1	<2	<1	<1	<1
	3/19/2018	<1	<1	<1	<2	<1	<1	<1
	4/21/2020	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
	7/27/2020	<1	<1	<1	<2	<1	<1	<1
	10/28/2020	NA	NA	NA	NA	NA	NA	NA
	3/4/2021	<1	<1	<1	<2	<1	<1	<1
	4/30/2021	<1	<1	<1	<2	<1	<1	<1
	7/29/2021	<1	<1	<1	<2	<1	<1	<1
	10/28/2021	<1	<1	<1	<2	<1	<1	<1

Notes: Concentrations measured in micrograms per liter (ug/L)

NS - Not Sampled

NA - Not Analyzed

WD - Well destroyed

MTBE - Methyl-Tert Butyl Ether

1,3,5-TMB: 1,3,5-Trimethylbenzene

1,2,4-TMB: 1,2,4-Trimethylbenzene

** Isopropylbenzene is also known as cumene

1.3/1.7 represents a duplicate sample taken

6/29/2017*- Samples MW-23S through MW-26S collected on 7/7/17

MW-27S^ - This well was labeled as MW-4 for sampling date 6/29/2017 on the Fairway Laboratory Data Report

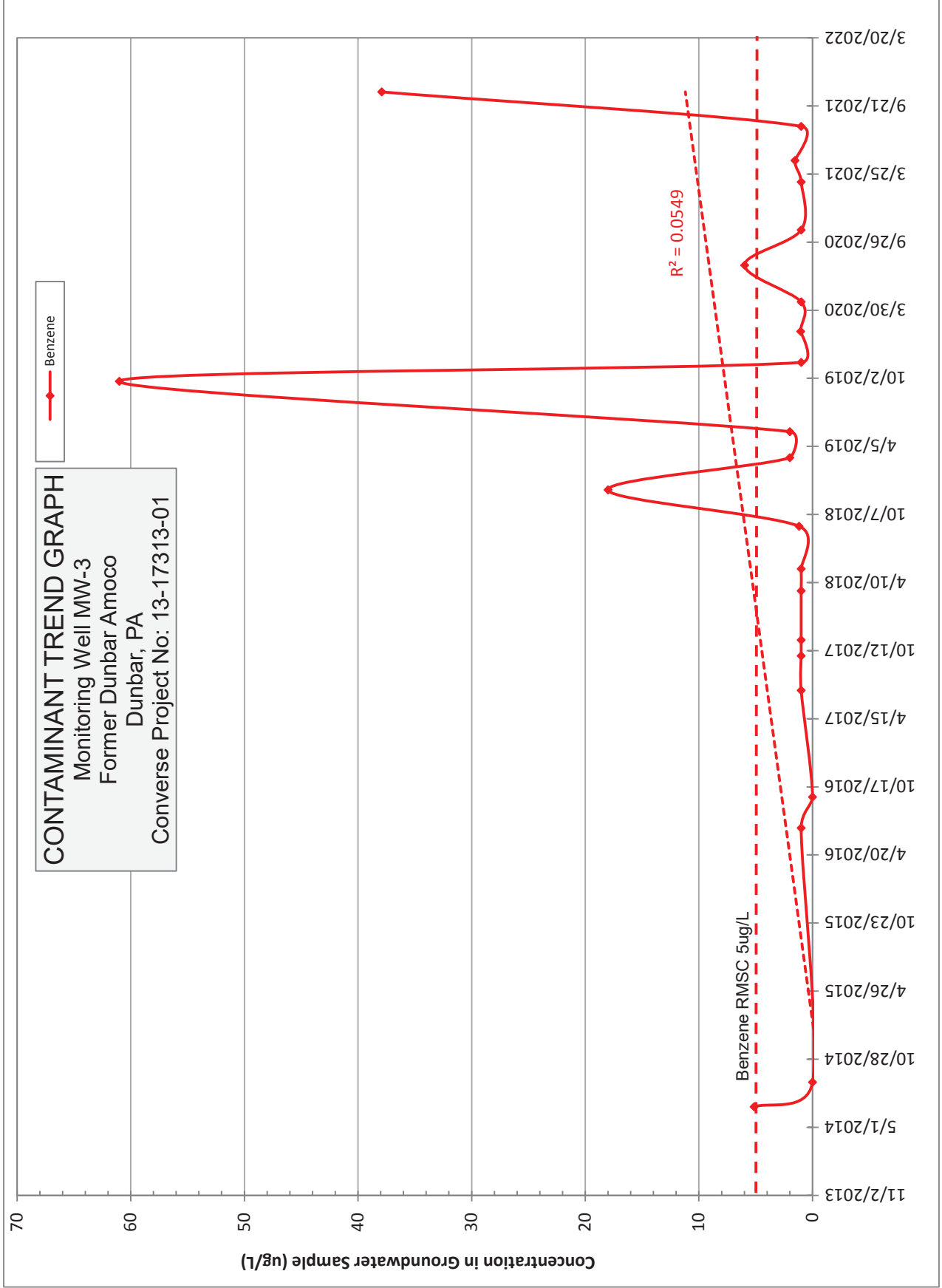
RMSC: Residential Used Aquifer Medium Specific Concentration

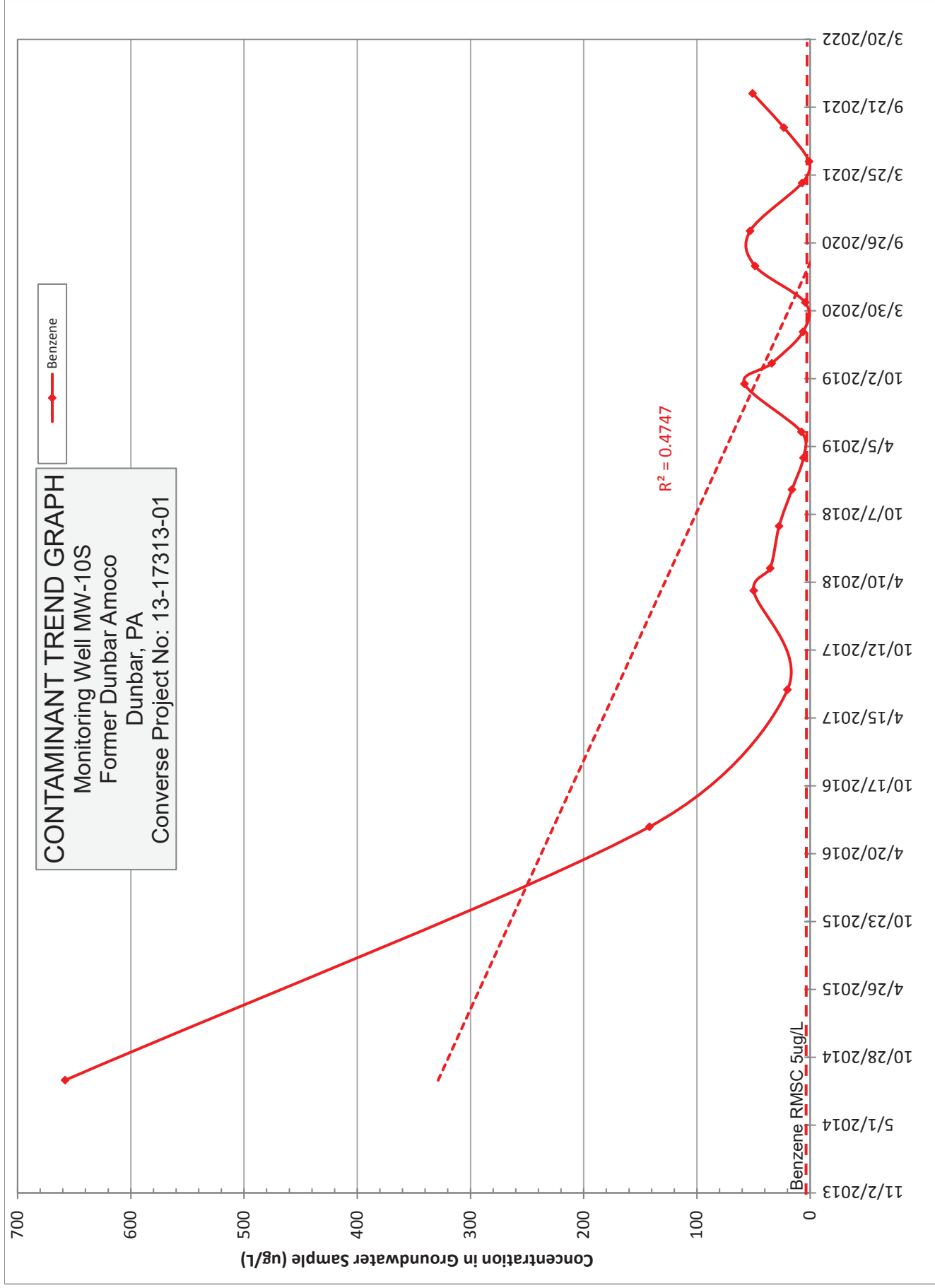
12/11/19*- MW-4 Sampled on 1/11/19

Monitoring wells MW-4, MW-6, MW-7, MW-8, MW-10, MW-13, MW-16, MW-17, MW-23S, MW-24S, MW-25S were removed from the sample regime with PADEP approval on 8/30/2019.

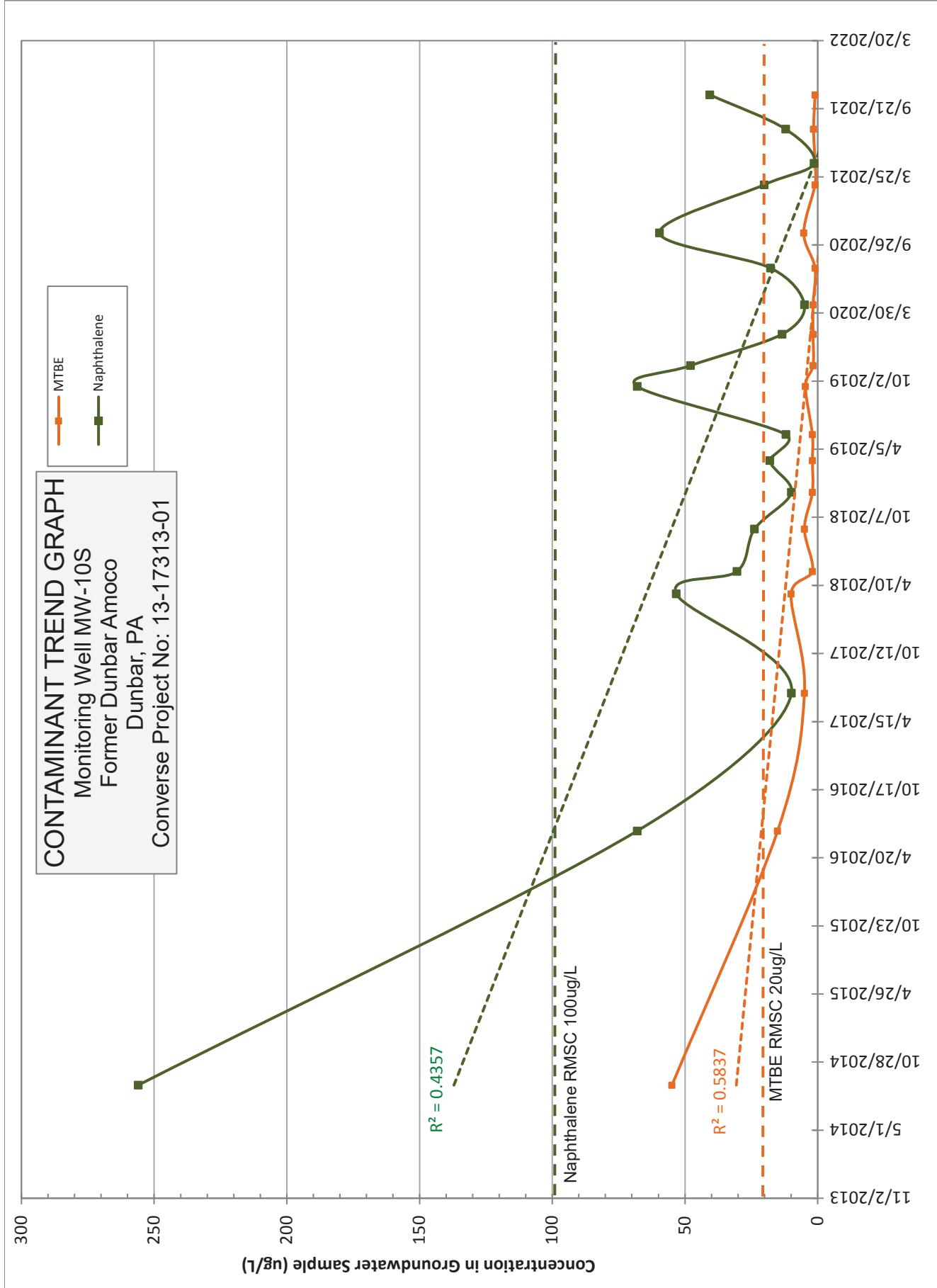


Appendix C

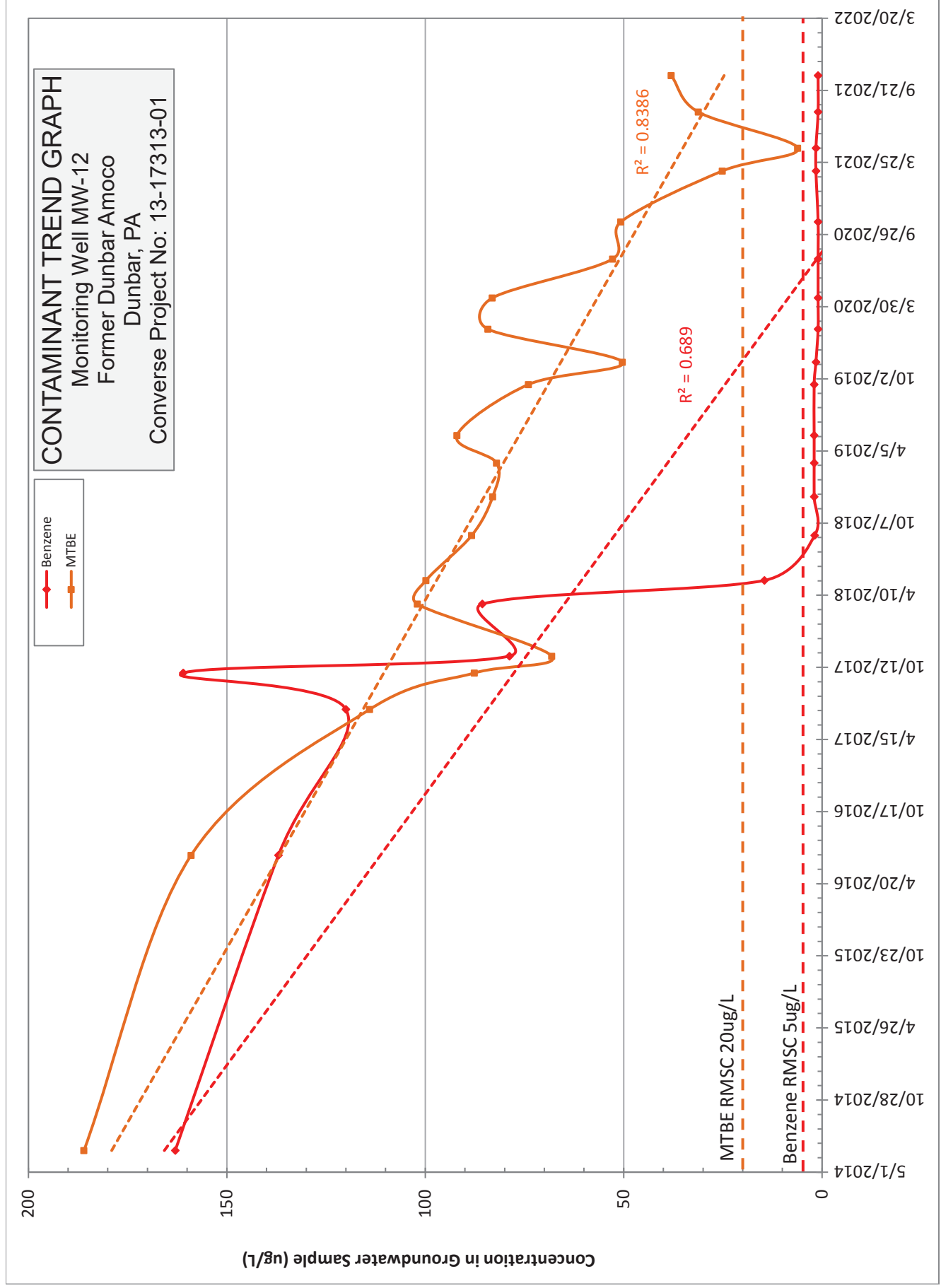




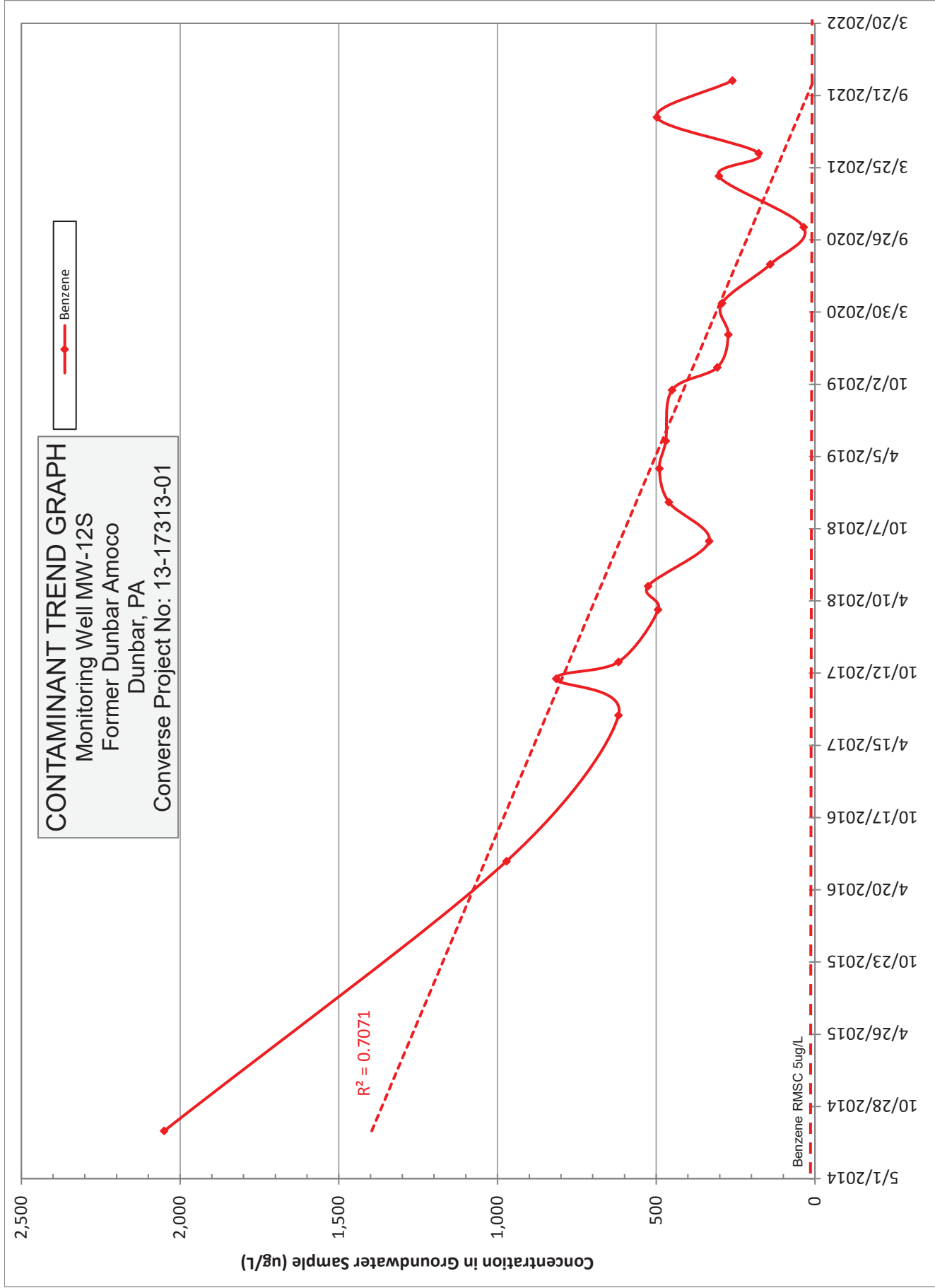
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



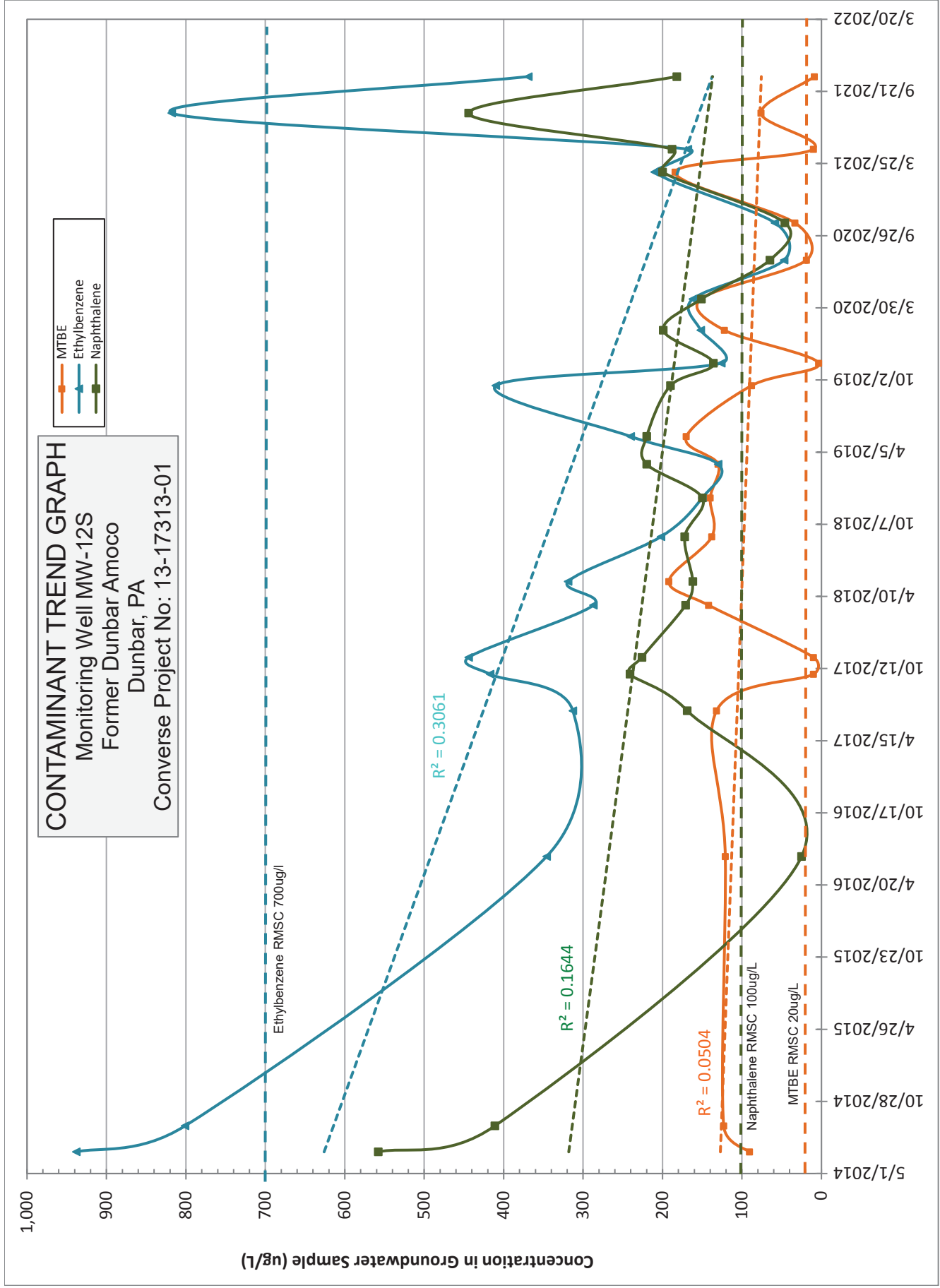
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



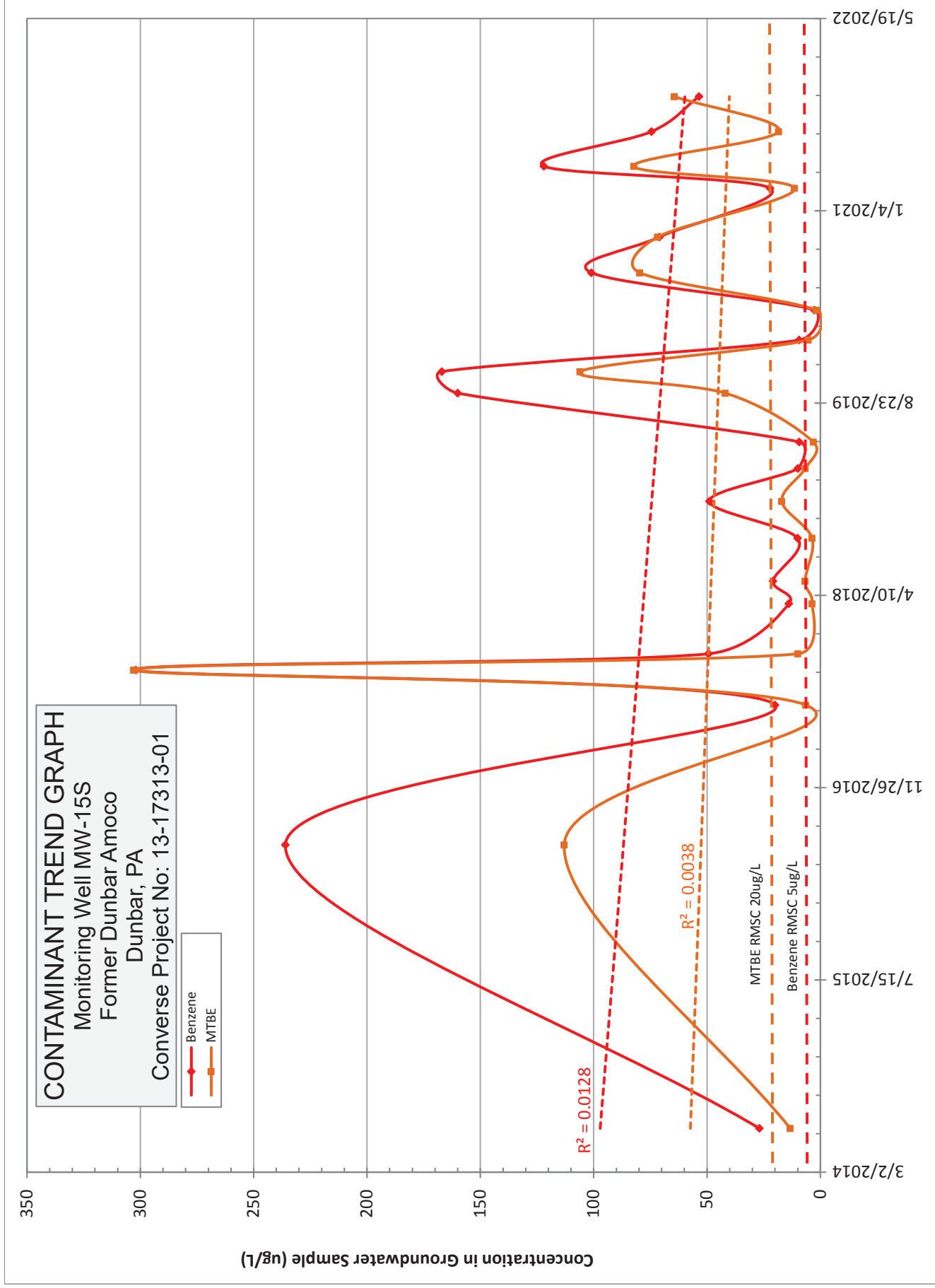
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



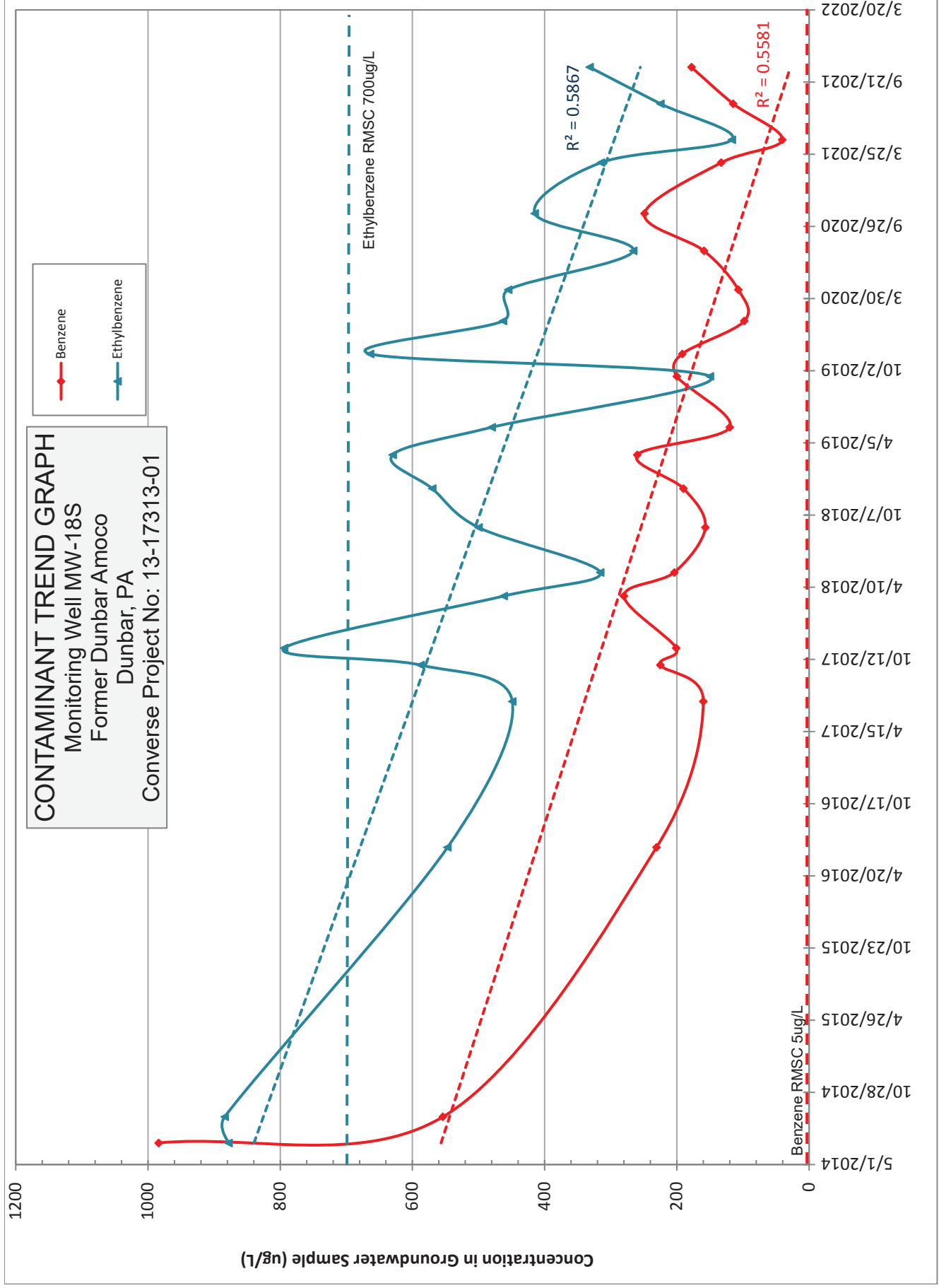
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



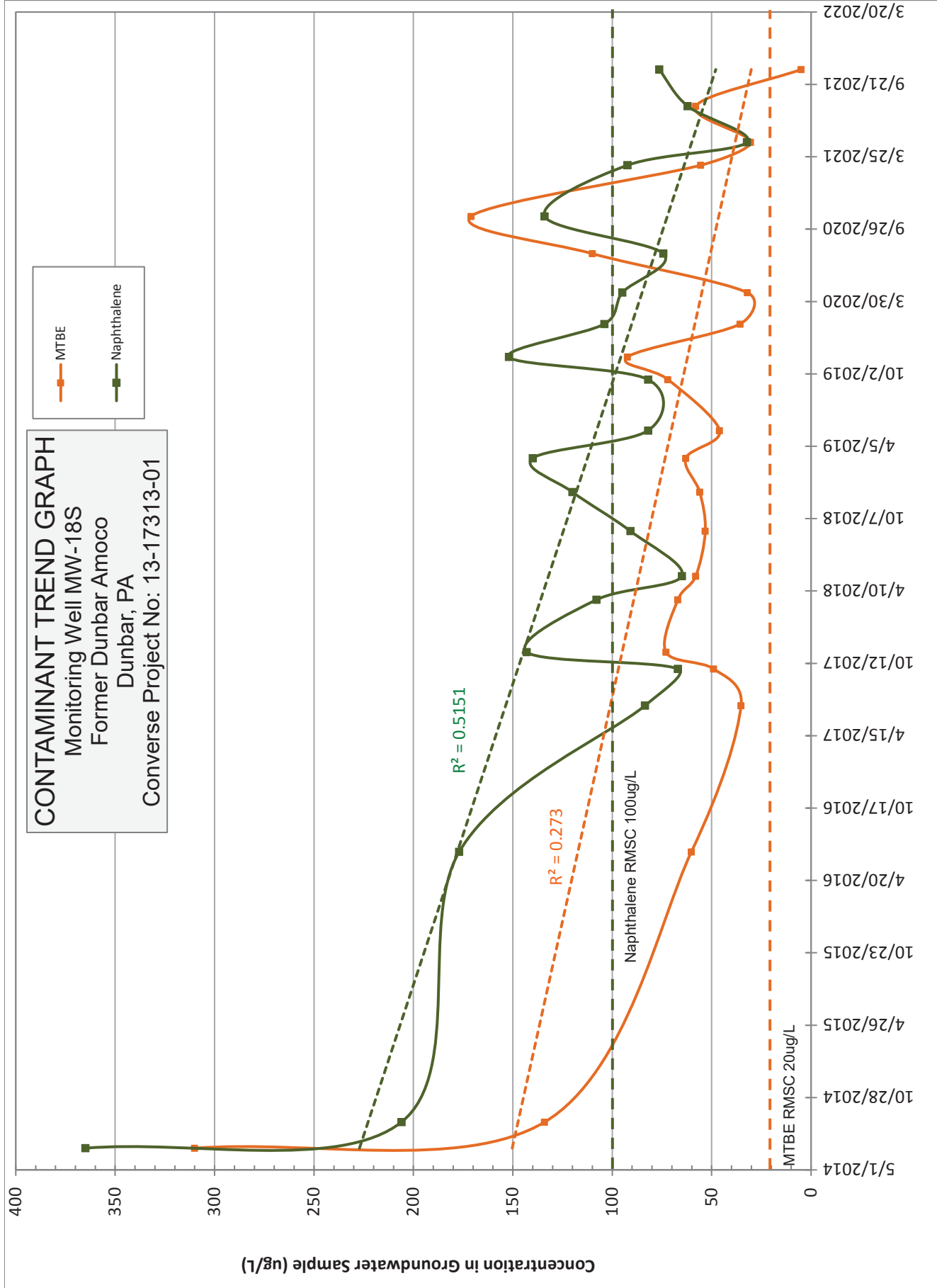
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



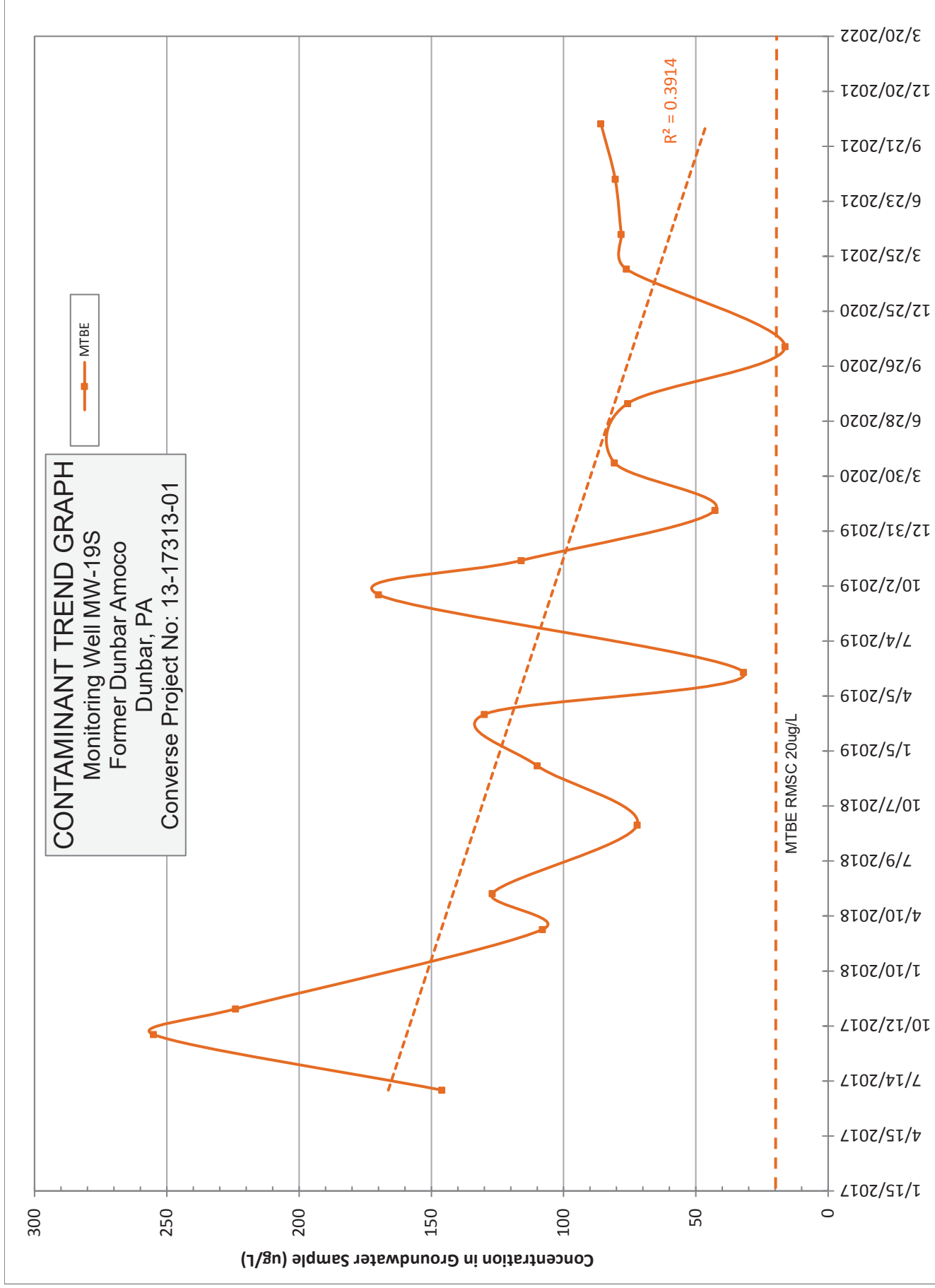
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



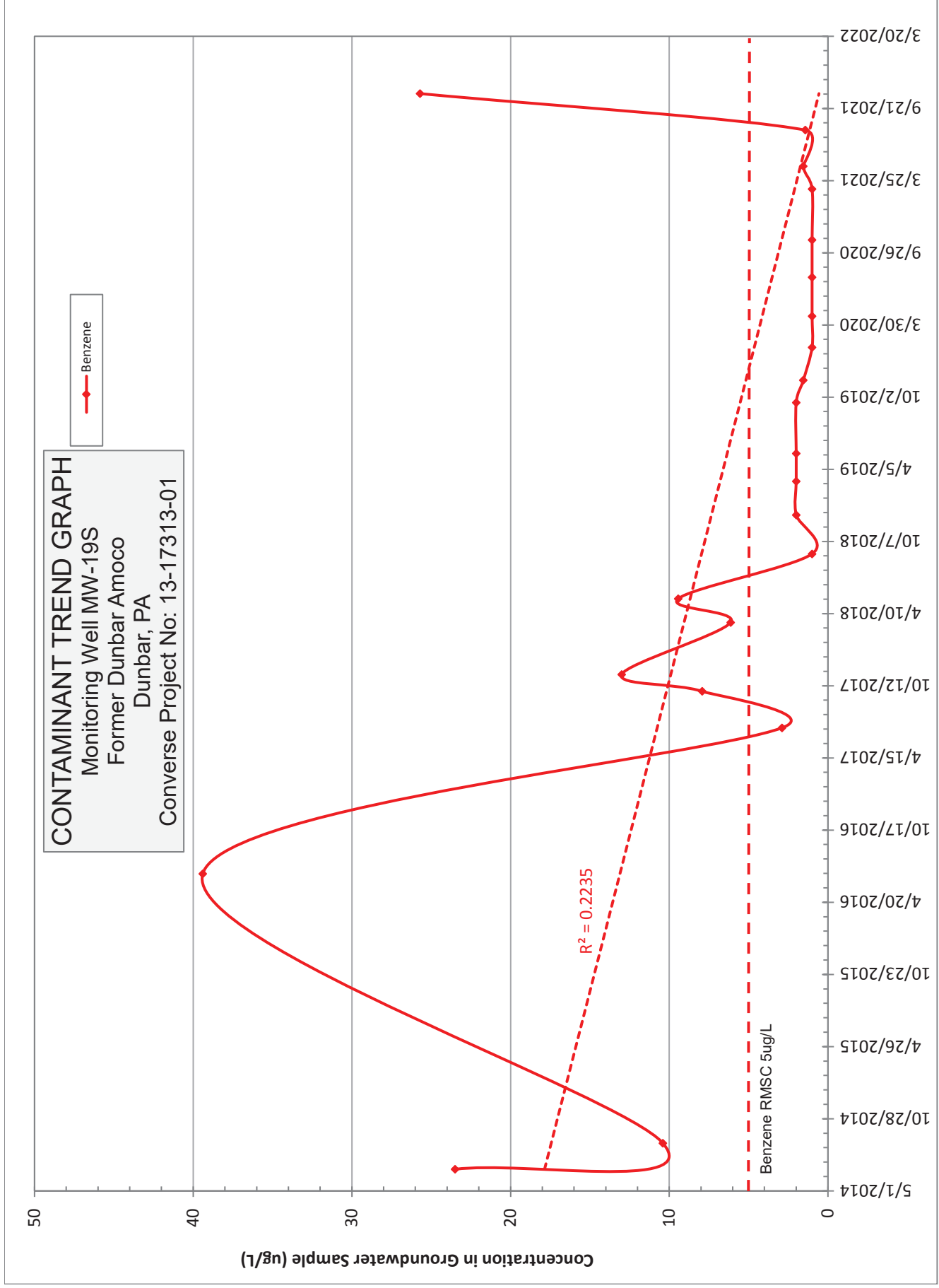
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



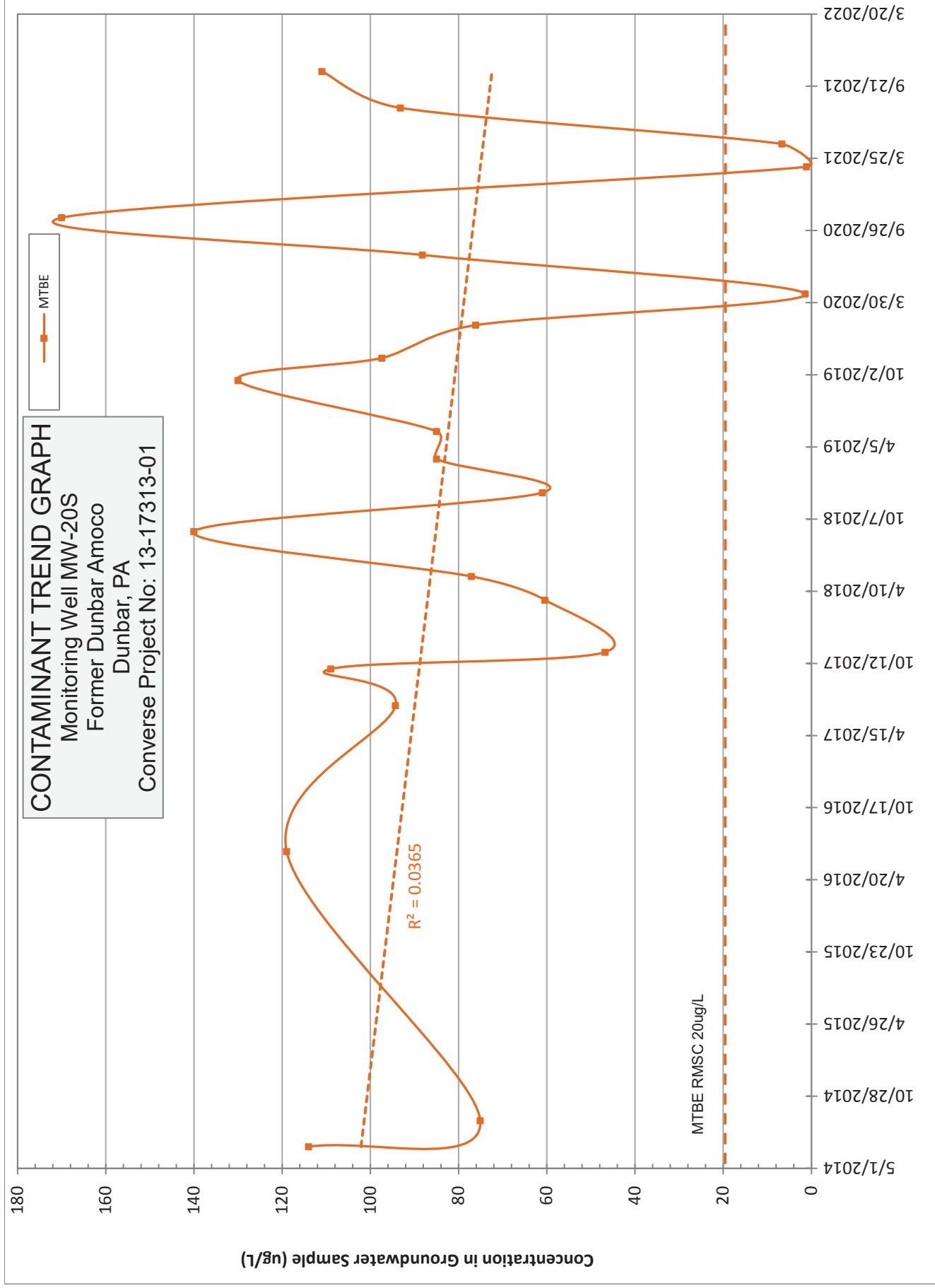
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



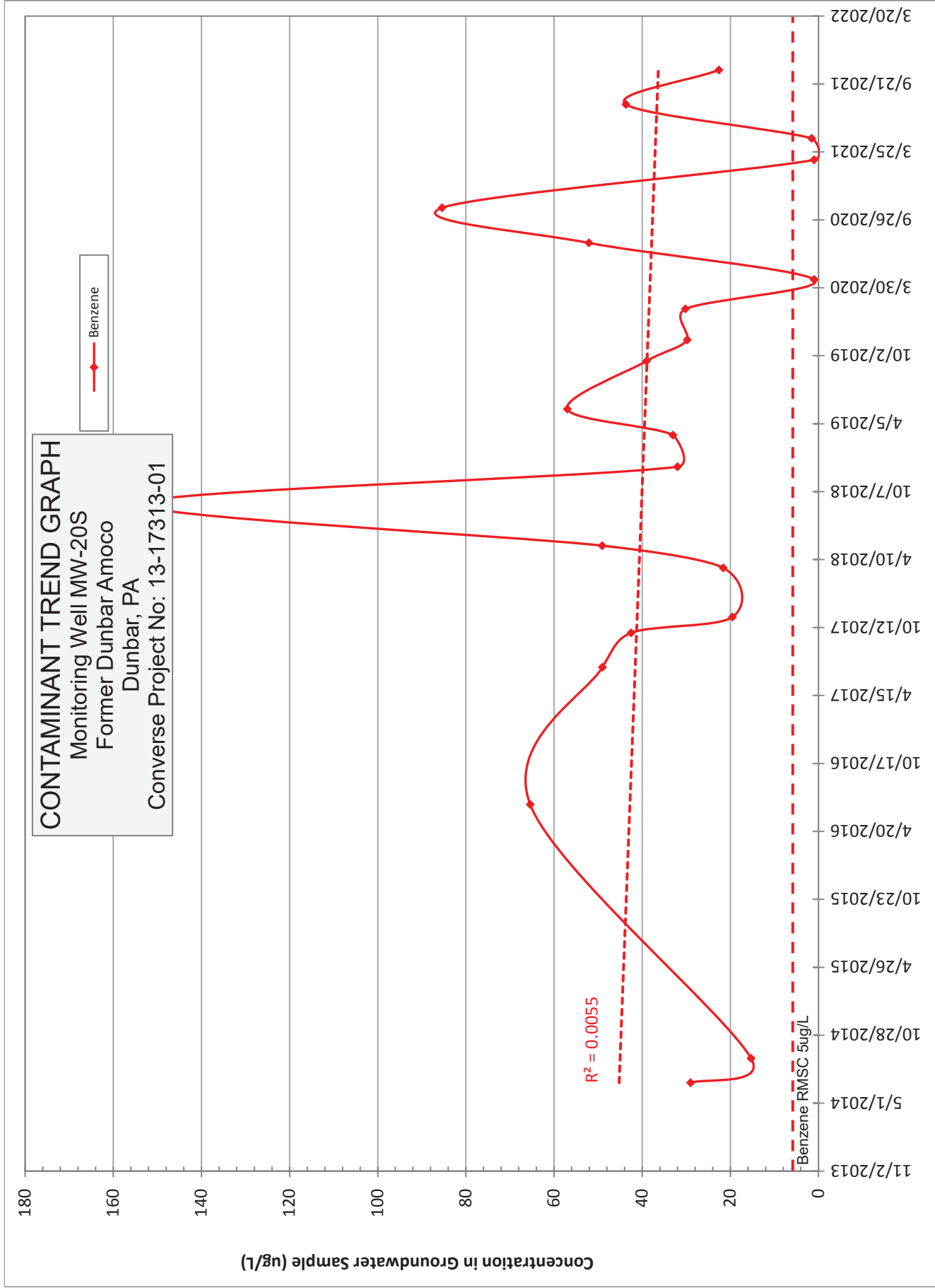
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



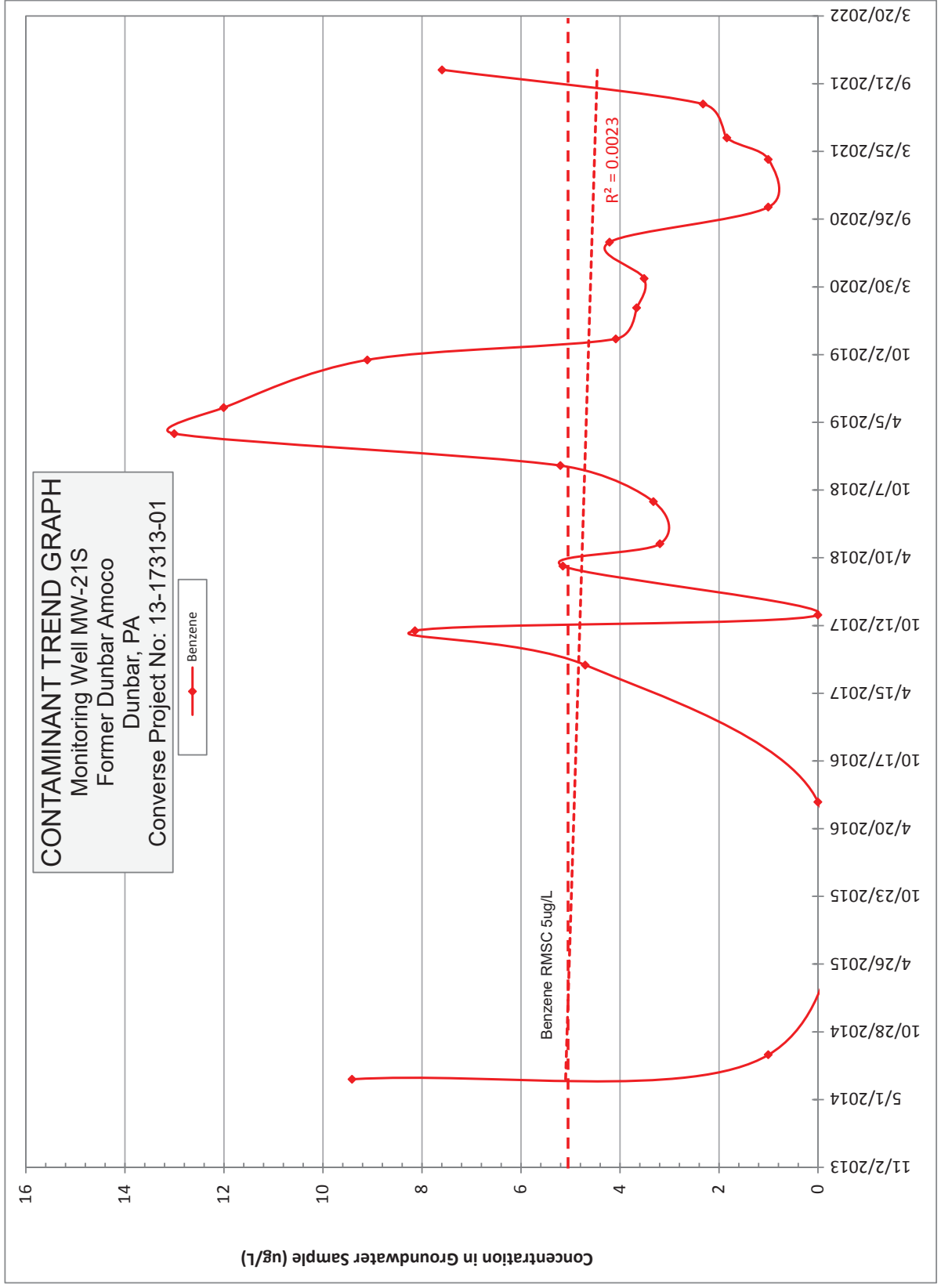
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.

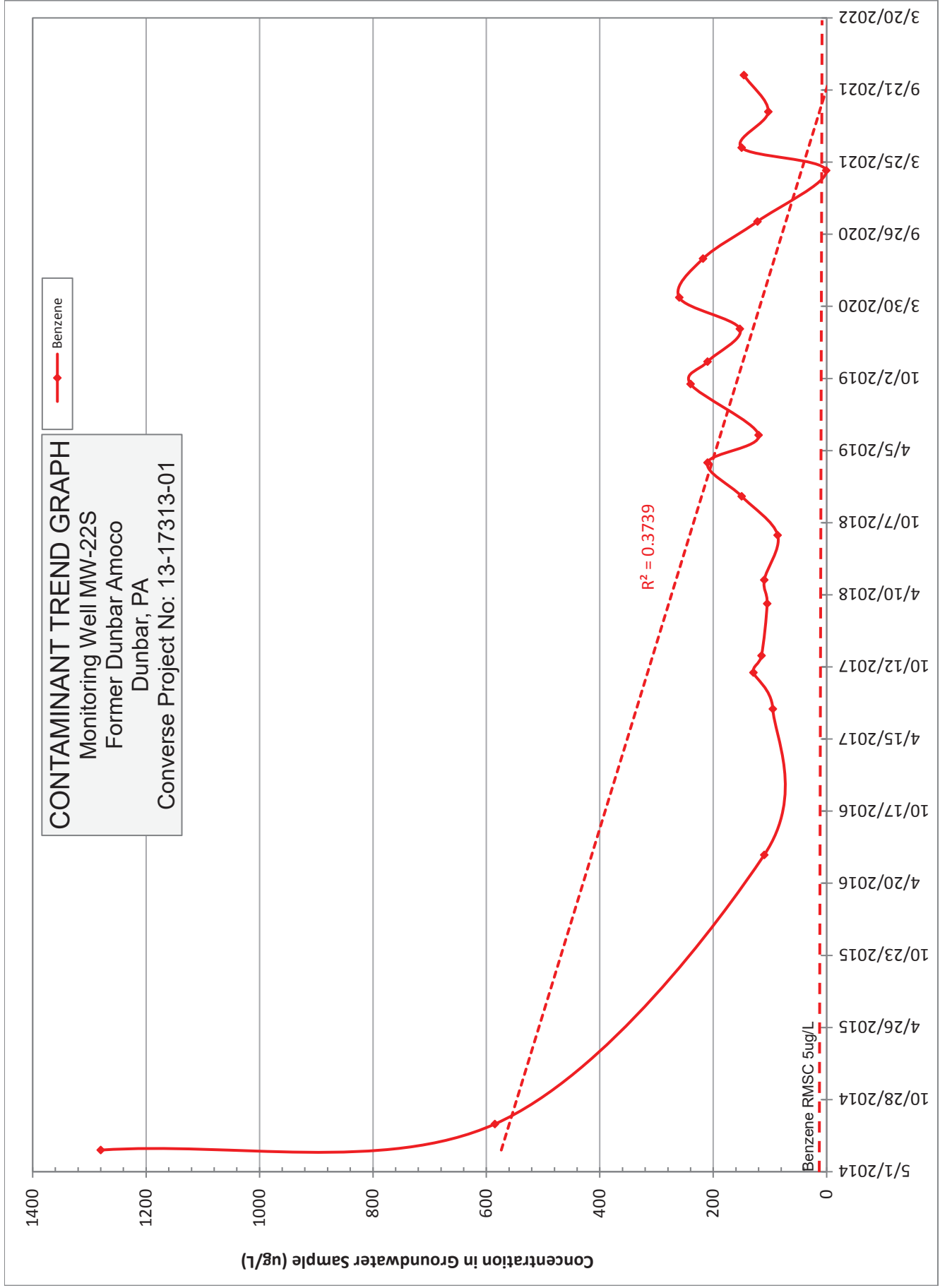


Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.

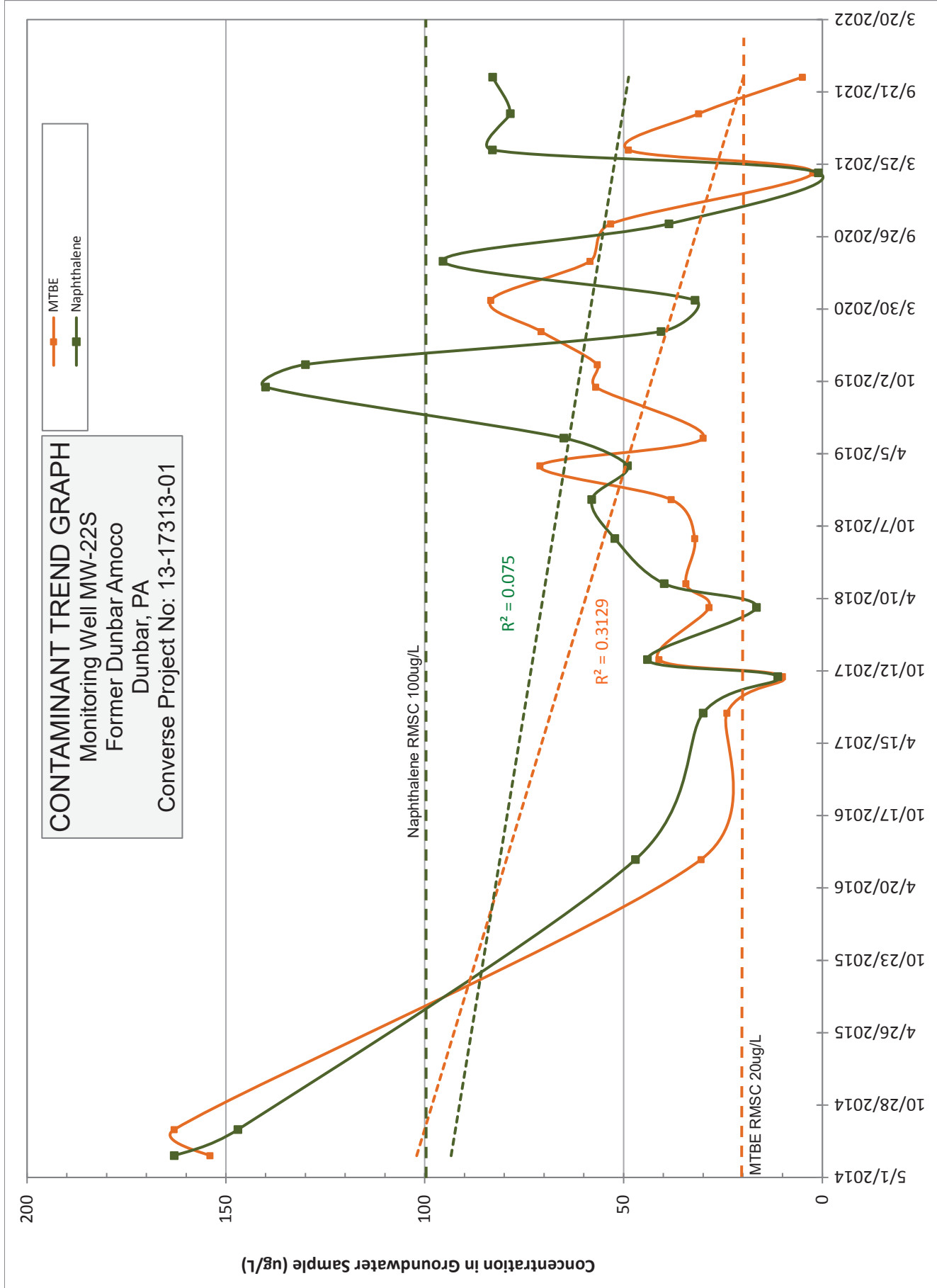


Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.

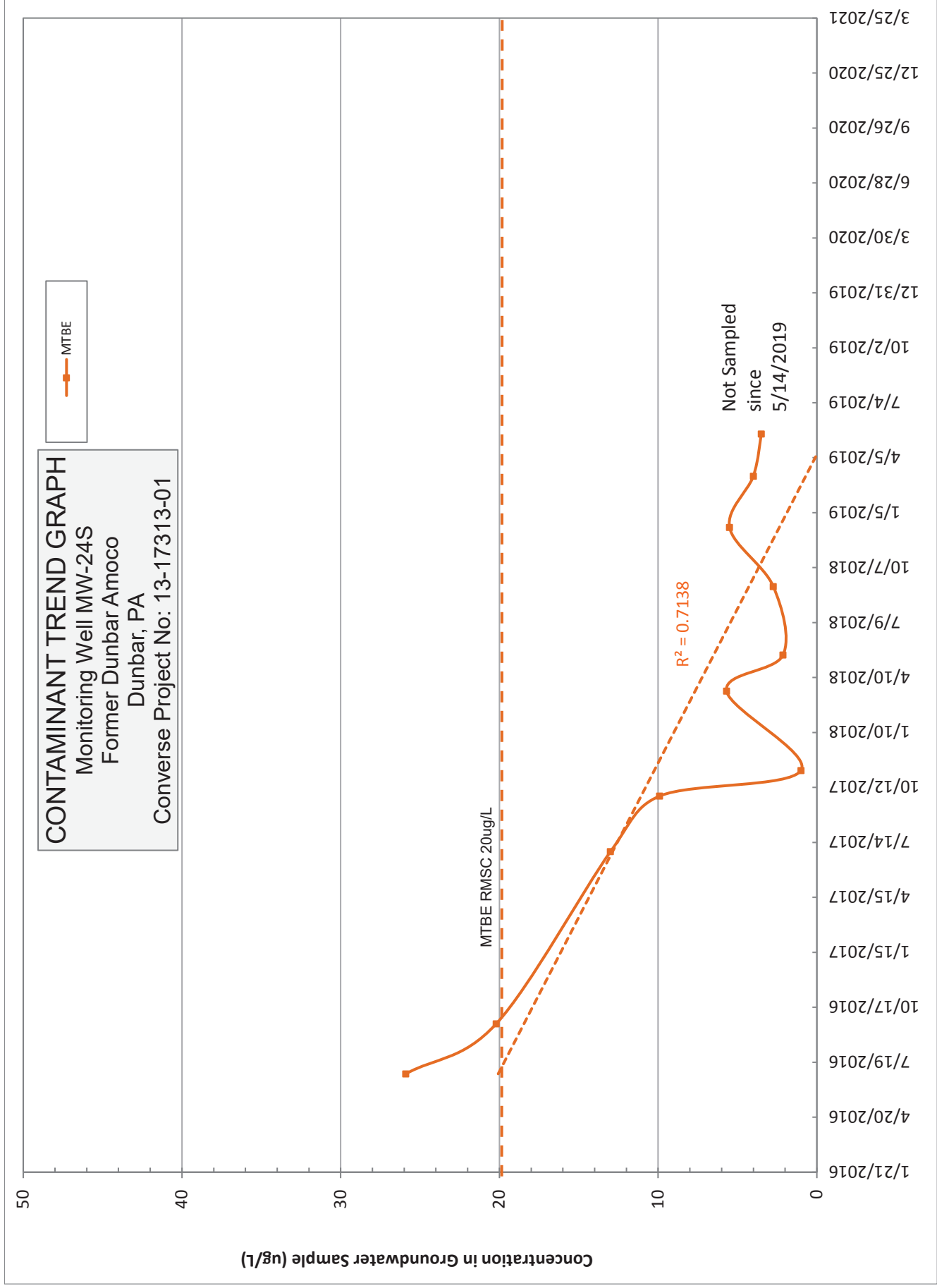




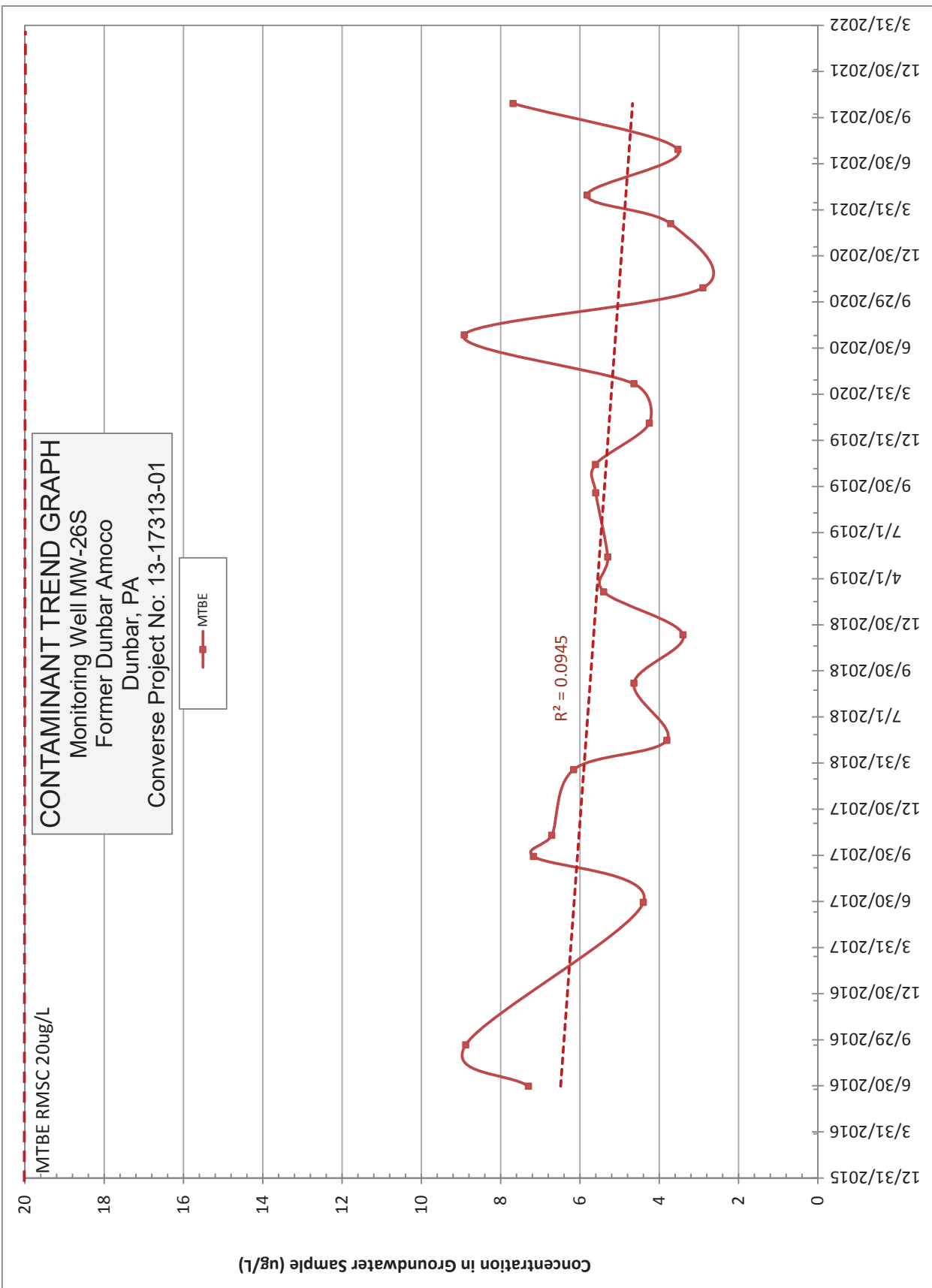
Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.

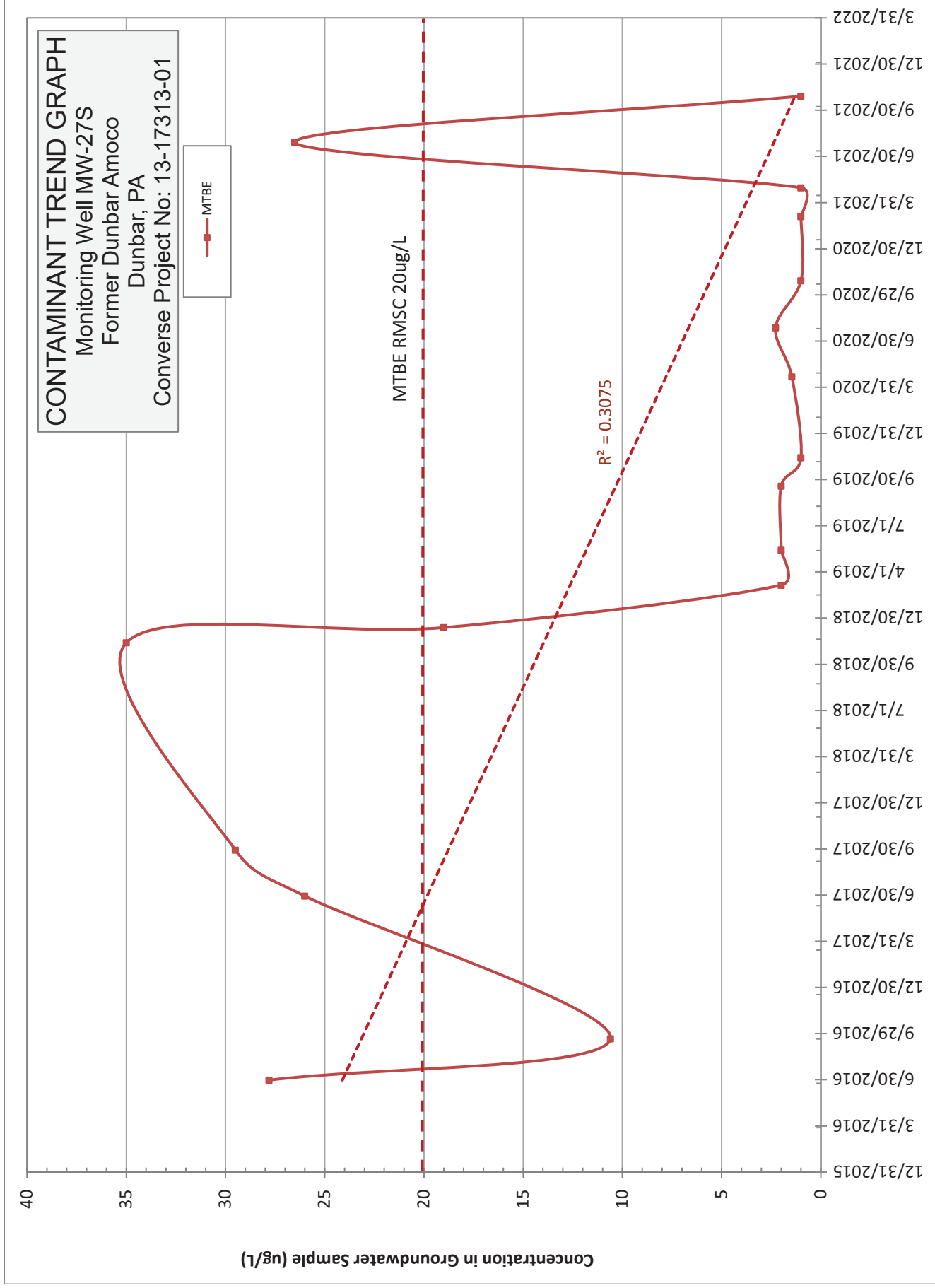


Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.



Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.





Concentrations that plot at zero correspond to analyte levels that were below the laboratory quantitation limit (LQL) of the analytical method.

Appendix D



2019 Ninth Avenue
PO Box 1925
Altoona, PA 16603
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NELAP: PA 07-062, VA 460212
State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT

Project Number: [none]

Collector: CLIENT

Number of Containers: 31

Reported:

11/10/21 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-3	1K01046-01	Water	Grab	10/28/21 13:31	10/29/21 15:45
MW-10S	1K01046-02	Water	Grab	10/28/21 12:47	10/29/21 15:45
MW-12	1K01046-03	Water	Grab	10/28/21 12:36	10/29/21 15:45
MW-12S	1K01046-04	Water	Grab	10/28/21 12:16	10/29/21 15:45
MW-15S	1K01046-05	Water	Grab	10/28/21 11:19	10/29/21 15:45
MW-18S	1K01046-06	Water	Grab	10/28/21 11:46	10/29/21 15:45
MW-19S	1K01046-07	Water	Grab	10/28/21 10:44	10/29/21 15:45
MW-20S	1K01046-08	Water	Grab	10/28/21 10:30	10/29/21 15:45
MW-21S	1K01046-09	Water	Grab	10/28/21 10:15	10/29/21 15:45
MW-22S	1K01046-10	Water	Grab	10/28/21 11:59	10/29/21 15:45
MW-26S	1K01046-11	Water	Grab	10/28/21 09:58	10/29/21 15:45
MW-27S	1K01046-12	Water	Grab	10/28/21 11:31	10/29/21 15:45
POND	1K01046-13	Water	Grab	10/28/21 09:33	10/29/21 15:45
DUPE	1K01046-14	Water	Grab	10/28/21 00:00	10/29/21 15:45
TRIP BLANK	1K01046-15	Water	Trip Blank	10/12/21 10:57	10/29/21 15:45
GAC	1K01046-16	Water	Grab	10/28/21 13:55	10/29/21 15:45

Refer to receiving document. GC

Fairway Laboratories, Inc.

Reviewed and Submitted by:

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Michael P. Tyler
Laboratory Director

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PO Box 1925
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(814) 946-4306

NELAP: PA 07-062, VA 460212
State Certifications: MD 275, WV 364



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-3

Date/Time Sampled: 10/28/21 13:31

Laboratory Sample ID: 1K01046-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	37.9		1.00	ug/l	11/02/21 16:19	EPA 8260B	JML	
Toluene	30.7		1.00	ug/l	11/02/21 16:19	EPA 8260B	JML	
Ethylbenzene	61.3		1.00	ug/l	11/02/21 16:19	EPA 8260B	JML	
Xylenes (total)	177		2.00	ug/l	11/02/21 16:19	EPA 8260B	JML	
Isopropylbenzene	5.49		1.00	ug/l	11/02/21 16:19	EPA 8260B	JML	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/02/21 16:19	EPA 8260B	JML	
Naphthalene	9.92		1.00	ug/l	11/02/21 16:19	EPA 8260B	JML	
Surrogate: 4-Bromofluorobenzene	99.4 %		70-130		11/02/21 16:19	EPA 8260B	JML	
Surrogate: 1,2-Dichloroethane-d4	99.5 %		70-130		11/02/21 16:19	EPA 8260B	JML	
Surrogate: Fluorobenzene	99.3 %		70-130		11/02/21 16:19	EPA 8260B	JML	



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-10S

Date/Time Sampled: 10/28/21 12:47

Laboratory Sample ID: 1K01046-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	50.8		1.00	ug/l	11/02/21 16:46	EPA 8260B	JML	
Toluene	7.95		1.00	ug/l	11/02/21 16:46	EPA 8260B	JML	
Ethylbenzene	53.2		1.00	ug/l	11/02/21 16:46	EPA 8260B	JML	
Xylenes (total)	17.5		2.00	ug/l	11/02/21 16:46	EPA 8260B	JML	
Isopropylbenzene	45.1		1.00	ug/l	11/02/21 16:46	EPA 8260B	JML	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/02/21 16:46	EPA 8260B	JML	
Naphthalene	40.7		1.00	ug/l	11/02/21 16:46	EPA 8260B	JML	
Surrogate: 4-Bromofluorobenzene		101 %	70-130		11/02/21 16:46	EPA 8260B	JML	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		11/02/21 16:46	EPA 8260B	JML	
Surrogate: Fluorobenzene		97.2 %	70-130		11/02/21 16:46	EPA 8260B	JML	



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Converse

Project: DUNBAR PROJECT

2738 West College Avenue

Project Number: [none]

Reported:

State College PA, 16801

Collector: CLIENT

11/10/21 16:35

Project Manager: Orion Cook

Number of Containers: 31

Client Sample ID: MW-12

Date/Time Sampled: 10/28/21 12:36

Laboratory Sample ID: 1K01046-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	<1.00	1.00	ug/l	11/02/21 17:14	EPA 8260B	JML
Toluene	<1.00	1.00	ug/l	11/02/21 17:14	EPA 8260B	JML
Ethylbenzene	<1.00	1.00	ug/l	11/02/21 17:14	EPA 8260B	JML
Xylenes (total)	<2.00	2.00	ug/l	11/02/21 17:14	EPA 8260B	JML
Isopropylbenzene	<1.00	1.00	ug/l	11/02/21 17:14	EPA 8260B	JML
Methyl tert-butyl ether	38.0	1.00	ug/l	11/02/21 17:14	EPA 8260B	JML
Naphthalene	<1.00	1.00	ug/l	11/02/21 17:14	EPA 8260B	JML
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130		11/02/21 17:14	EPA 8260B	JML
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/02/21 17:14	EPA 8260B	JML
Surrogate: Fluorobenzene	101 %	70-130		11/02/21 17:14	EPA 8260B	JML

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Project: DUNBAR PROJECT

2738 West College Avenue

Project Number: [none]

Reported:

State College PA, 16801

Collector: CLIENT

11/10/21 16:35

Project Manager: Orion Cook

Number of Containers: 31

Client Sample ID: MW-12S

Date/Time Sampled: 10/28/21 12:16

Laboratory Sample ID: 1K01046-04 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	260		25.0	ug/l	11/03/21 12:23	EPA 8260B	JMG	Q
Toluene	41.0		25.0	ug/l	11/03/21 12:23	EPA 8260B	JMG	Q
Ethylbenzene	369		25.0	ug/l	11/03/21 12:23	EPA 8260B	JMG	Q
Xylenes (total)	78.2		50.0	ug/l	11/03/21 12:23	EPA 8260B	JMG	Q
Isopropylbenzene	40.5		25.0	ug/l	11/03/21 12:23	EPA 8260B	JMG	Q
Methyl tert-butyl ether	<8.75		8.75	ug/l	11/03/21 12:23	EPA 8260B	JMG	Q, S
Naphthalene	160		25.0	ug/l	11/03/21 12:23	EPA 8260B	JMG	Q
Surrogate: 4-Bromofluorobenzene		98.4 %	70-130		11/03/21 12:23	EPA 8260B	JMG	Q
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		11/03/21 12:23	EPA 8260B	JMG	Q
Surrogate: Fluorobenzene		101 %	70-130		11/03/21 12:23	EPA 8260B	JMG	Q

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State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-15S

Date/Time Sampled: 10/28/21 11:19

Laboratory Sample ID: 1K01046-05 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	53.6		5.00	ug/l	11/03/21 22:01	EPA 8260B	JML	Q
Toluene	28.2		1.00	ug/l	11/02/21 17:40	EPA 8260B	JML	
Ethylbenzene	68.6		1.00	ug/l	11/02/21 17:40	EPA 8260B	JML	
Xylenes (total)	155		2.00	ug/l	11/02/21 17:40	EPA 8260B	JML	
Isopropylbenzene	13.7		1.00	ug/l	11/02/21 17:40	EPA 8260B	JML	
Methyl tert-butyl ether	64.4		5.00	ug/l	11/03/21 22:01	EPA 8260B	JML	Q
Naphthalene	39.8		1.00	ug/l	11/02/21 17:40	EPA 8260B	JML	
Surrogate: 4-Bromofluorobenzene		100 %	70-130		11/02/21 17:40	EPA 8260B	JML	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		11/02/21 17:40	EPA 8260B	JML	
Surrogate: Fluorobenzene		99.5 %	70-130		11/02/21 17:40	EPA 8260B	JML	



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Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-18S

Date/Time Sampled: 10/28/21 11:46

Laboratory Sample ID: 1K01046-06 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	178		5.00	ug/l	11/03/21 13:17	EPA 8260B	JMG	Q
Toluene	46.5		5.00	ug/l	11/03/21 13:17	EPA 8260B	JMG	Q
Ethylbenzene	332		5.00	ug/l	11/03/21 13:17	EPA 8260B	JMG	Q
Xylenes (total)	315		10.0	ug/l	11/03/21 13:17	EPA 8260B	JMG	Q
Isopropylbenzene	48.6		5.00	ug/l	11/03/21 13:17	EPA 8260B	JMG	Q
Methyl tert-butyl ether	<5.00		5.00	ug/l	11/03/21 13:17	EPA 8260B	JMG	Q
Naphthalene	76.4		5.00	ug/l	11/03/21 13:17	EPA 8260B	JMG	Q
Surrogate: 4-Bromofluorobenzene		100 %	70-130		11/03/21 13:17	EPA 8260B	JMG	Q
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		11/03/21 13:17	EPA 8260B	JMG	Q
Surrogate: Fluorobenzene		99.3 %	70-130		11/03/21 13:17	EPA 8260B	JMG	Q



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Project: DUNBAR PROJECT

2738 West College Avenue

Project Number: [none]

Reported:

State College PA, 16801

Collector: CLIENT

11/10/21 16:35

Project Manager: Orion Cook

Number of Containers: 31

Client Sample ID: MW-19S

Date/Time Sampled: 10/28/21 10:44

Laboratory Sample ID: 1K01046-07 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	25.7		1.00	ug/l	11/02/21 18:07	EPA 8260B	JML	
Toluene	22.1		1.00	ug/l	11/02/21 18:07	EPA 8260B	JML	
Ethylbenzene	25.1		1.00	ug/l	11/02/21 18:07	EPA 8260B	JML	
Xylenes (total)	122		2.00	ug/l	11/02/21 18:07	EPA 8260B	JML	
Isopropylbenzene	1.29		1.00	ug/l	11/02/21 18:07	EPA 8260B	JML	
Methyl tert-butyl ether	85.9		1.00	ug/l	11/02/21 18:07	EPA 8260B	JML	
Naphthalene	5.04		1.00	ug/l	11/02/21 18:07	EPA 8260B	JML	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130		11/02/21 18:07	EPA 8260B	JML	
Surrogate: 1,2-Dichloroethane-d4	101 %		70-130		11/02/21 18:07	EPA 8260B	JML	
Surrogate: Fluorobenzene	101 %		70-130		11/02/21 18:07	EPA 8260B	JML	



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Converse

Project: DUNBAR PROJECT

2738 West College Avenue

Project Number: [none]

Reported:

State College PA, 16801

Collector: CLIENT

11/10/21 16:35

Project Manager: Orion Cook

Number of Containers: 31

Client Sample ID: MW-20S

Date/Time Sampled: 10/28/21 10:30

Laboratory Sample ID: 1K01046-08 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	22.6		1.00	ug/l	11/02/21 18:34	EPA 8260B	JML	
Toluene	9.88		1.00	ug/l	11/02/21 18:34	EPA 8260B	JML	
Ethylbenzene	12.3		1.00	ug/l	11/02/21 18:34	EPA 8260B	JML	
Xylenes (total)	61.1		2.00	ug/l	11/02/21 18:34	EPA 8260B	JML	
Isopropylbenzene	<1.00		1.00	ug/l	11/02/21 18:34	EPA 8260B	JML	
Methyl tert-butyl ether	111		5.00	ug/l	11/03/21 22:29	EPA 8260B	JML	Q
Naphthalene	2.97		1.00	ug/l	11/02/21 18:34	EPA 8260B	JML	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130		11/02/21 18:34	EPA 8260B	JML	
Surrogate: 1,2-Dichloroethane-d4	101 %		70-130		11/02/21 18:34	EPA 8260B	JML	
Surrogate: Fluorobenzene	103 %		70-130		11/02/21 18:34	EPA 8260B	JML	



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-21S

Date/Time Sampled: 10/28/21 10:15

Laboratory Sample ID: 1K01046-09 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	7.59		1.00	ug/l	11/03/21 16:25	EPA 8260B	JMG	
Toluene	6.60		1.00	ug/l	11/03/21 16:25	EPA 8260B	JMG	
Ethylbenzene	10.0		1.00	ug/l	11/03/21 16:25	EPA 8260B	JMG	
Xylenes (total)	49.2		2.00	ug/l	11/03/21 16:25	EPA 8260B	JMG	
Isopropylbenzene	<1.00		1.00	ug/l	11/03/21 16:25	EPA 8260B	JMG	
Methyl tert-butyl ether	7.78		1.00	ug/l	11/03/21 16:25	EPA 8260B	JMG	
Naphthalene	1.79		1.00	ug/l	11/03/21 16:25	EPA 8260B	JMG	
Surrogate: 4-Bromofluorobenzene		98.6 %	70-130		11/03/21 16:25	EPA 8260B	JMG	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		11/03/21 16:25	EPA 8260B	JMG	
Surrogate: Fluorobenzene		99.2 %	70-130		11/03/21 16:25	EPA 8260B	JMG	



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-22S

Date/Time Sampled: 10/28/21 11:59

Laboratory Sample ID: 1K01046-10 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	146		5.00	ug/l	11/03/21 13:44	EPA 8260B	JMG	Q
Toluene	35.7		5.00	ug/l	11/03/21 13:44	EPA 8260B	JMG	Q
Ethylbenzene	282		5.00	ug/l	11/03/21 13:44	EPA 8260B	JMG	Q
Xylenes (total)	193		10.0	ug/l	11/03/21 13:44	EPA 8260B	JMG	Q
Isopropylbenzene	48.0		5.00	ug/l	11/03/21 13:44	EPA 8260B	JMG	Q
Methyl tert-butyl ether	<5.00		5.00	ug/l	11/03/21 13:44	EPA 8260B	JMG	Q
Naphthalene	82.9		5.00	ug/l	11/03/21 13:44	EPA 8260B	JMG	Q
Surrogate: 4-Bromofluorobenzene		98.8 %	70-130		11/03/21 13:44	EPA 8260B	JMG	Q
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		11/03/21 13:44	EPA 8260B	JMG	Q
Surrogate: Fluorobenzene		100 %	70-130		11/03/21 13:44	EPA 8260B	JMG	Q



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-26S

Date/Time Sampled: 10/28/21 09:58

Laboratory Sample ID: 1K01046-11 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	18.7		1.00	ug/l	11/03/21 16:52	EPA 8260B	JMG	
Toluene	18.2		1.00	ug/l	11/03/21 16:52	EPA 8260B	JMG	
Ethylbenzene	21.0		1.00	ug/l	11/03/21 16:52	EPA 8260B	JMG	
Xylenes (total)	101		2.00	ug/l	11/03/21 16:52	EPA 8260B	JMG	
Isopropylbenzene	1.05		1.00	ug/l	11/03/21 16:52	EPA 8260B	JMG	
Methyl tert-butyl ether	7.69		1.00	ug/l	11/03/21 16:52	EPA 8260B	JMG	
Naphthalene	3.17		1.00	ug/l	11/03/21 16:52	EPA 8260B	JMG	
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130		11/03/21 16:52	EPA 8260B	JMG	
Surrogate: 1,2-Dichloroethane-d4	98.9 %		70-130		11/03/21 16:52	EPA 8260B	JMG	
Surrogate: Fluorobenzene	99.5 %		70-130		11/03/21 16:52	EPA 8260B	JMG	



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: MW-27S

Date/Time Sampled: 10/28/21 11:31

Laboratory Sample ID: 1K01046-12 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	<1.00		1.00	ug/l	11/03/21 17:19	EPA 8260B	JMG	
Toluene	<1.00		1.00	ug/l	11/03/21 17:19	EPA 8260B	JMG	
Ethylbenzene	<1.00		1.00	ug/l	11/03/21 17:19	EPA 8260B	JMG	
Xylenes (total)	<2.00		2.00	ug/l	11/03/21 17:19	EPA 8260B	JMG	
Isopropylbenzene	<1.00		1.00	ug/l	11/03/21 17:19	EPA 8260B	JMG	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/03/21 17:19	EPA 8260B	JMG	
Naphthalene	<1.00		1.00	ug/l	11/03/21 17:19	EPA 8260B	JMG	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130		11/03/21 17:19	EPA 8260B	JMG	
Surrogate: 1,2-Dichloroethane-d4	100 %		70-130		11/03/21 17:19	EPA 8260B	JMG	
Surrogate: Fluorobenzene	102 %		70-130		11/03/21 17:19	EPA 8260B	JMG	



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NELAP: PA 07-062, VA 460212
State Certifications: MD 275, WV 364



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Converse

Project: DUNBAR PROJECT

2738 West College Avenue

Project Number: [none]

Reported:

State College PA, 16801

Collector: CLIENT

11/10/21 16:35

Project Manager: Orion Cook

Number of Containers: 31

Client Sample ID: POND

Date/Time Sampled: 10/28/21 09:33

Laboratory Sample ID: 1K01046-13 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	<1.00		1.00	ug/l	11/03/21 17:46	EPA 8260B	JMG	
Toluene	<1.00		1.00	ug/l	11/03/21 17:46	EPA 8260B	JMG	
Ethylbenzene	<1.00		1.00	ug/l	11/03/21 17:46	EPA 8260B	JMG	
Xylenes (total)	<2.00		2.00	ug/l	11/03/21 17:46	EPA 8260B	JMG	
Isopropylbenzene	<1.00		1.00	ug/l	11/03/21 17:46	EPA 8260B	JMG	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/03/21 17:46	EPA 8260B	JMG	
Naphthalene	<1.00		1.00	ug/l	11/03/21 17:46	EPA 8260B	JMG	
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130		11/03/21 17:46	EPA 8260B	JMG	
Surrogate: 1,2-Dichloroethane-d4	100 %		70-130		11/03/21 17:46	EPA 8260B	JMG	
Surrogate: Fluorobenzene	99.6 %		70-130		11/03/21 17:46	EPA 8260B	JMG	



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Converse

Project: DUNBAR PROJECT

2738 West College Avenue

Project Number: [none]

Reported:

State College PA, 16801

Collector: CLIENT

11/10/21 16:35

Project Manager: Orion Cook

Number of Containers: 31

Client Sample ID: DUPE

Date/Time Sampled: 10/28/21 00:00

Laboratory Sample ID: 1K01046-14 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	238		25.0	ug/l	11/03/21 12:50	EPA 8260B	JMG	Q
Toluene	38.5		25.0	ug/l	11/03/21 12:50	EPA 8260B	JMG	Q
Ethylbenzene	366		25.0	ug/l	11/03/21 12:50	EPA 8260B	JMG	Q
Xylenes (total)	75.2		50.0	ug/l	11/03/21 12:50	EPA 8260B	JMG	Q
Isopropylbenzene	46.2		25.0	ug/l	11/03/21 12:50	EPA 8260B	JMG	Q
Methyl tert-butyl ether	<8.75		8.75	ug/l	11/03/21 12:50	EPA 8260B	JMG	Q, S
Naphthalene	182		25.0	ug/l	11/03/21 12:50	EPA 8260B	JMG	Q
Surrogate: 4-Bromofluorobenzene		100 %	70-130		11/03/21 12:50	EPA 8260B	JMG	Q
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		11/03/21 12:50	EPA 8260B	JMG	Q
Surrogate: Fluorobenzene		100 %	70-130		11/03/21 12:50	EPA 8260B	JMG	Q



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: TRIP BLANK

Date/Time Sampled: 10/12/21 10:57

Laboratory Sample ID: 1K01046-15 (Water/Trip Blank)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	<1.00		1.00	ug/l	11/03/21 18:12	EPA 8260B	JMG	B1
Toluene	<1.00		1.00	ug/l	11/03/21 18:12	EPA 8260B	JMG	B1
Ethylbenzene	<1.00		1.00	ug/l	11/03/21 18:12	EPA 8260B	JMG	B1
Xylenes (total)	<2.00		2.00	ug/l	11/03/21 18:12	EPA 8260B	JMG	B1
Isopropylbenzene	<1.00		1.00	ug/l	11/03/21 18:12	EPA 8260B	JMG	B1
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/03/21 18:12	EPA 8260B	JMG	B1
Naphthalene	<1.00		1.00	ug/l	11/03/21 18:12	EPA 8260B	JMG	B1
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130		11/03/21 18:12	EPA 8260B	JMG	B1
Surrogate: 1,2-Dichloroethane-d4	101 %		70-130		11/03/21 18:12	EPA 8260B	JMG	B1
Surrogate: Fluorobenzene	101 %		70-130		11/03/21 18:12	EPA 8260B	JMG	B1



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: DUNBAR PROJECT
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
11/10/21 16:35

Client Sample ID: GAC

Date/Time Sampled: 10/28/21 13:55

Laboratory Sample ID: 1K01046-16 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030B

Benzene	<1.00	1.00	ug/l	11/03/21 20:25	EPA 8260B	JMG	
Toluene	<1.00	1.00	ug/l	11/03/21 20:25	EPA 8260B	JMG	
Ethylbenzene	<1.00	1.00	ug/l	11/03/21 20:25	EPA 8260B	JMG	
Xylenes (total)	<2.00	2.00	ug/l	11/03/21 20:25	EPA 8260B	JMG	K
Isopropylbenzene	<1.00	1.00	ug/l	11/03/21 20:25	EPA 8260B	JMG	
Methyl tert-butyl ether	<1.00	1.00	ug/l	11/03/21 20:25	EPA 8260B	JMG	
Naphthalene	<1.00	1.00	ug/l	11/03/21 20:25	EPA 8260B	JMG	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130		11/03/21 20:25	EPA 8260B	JMG	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		11/03/21 20:25	EPA 8260B	JMG	
Surrogate: Fluorobenzene	99.2 %	70-130		11/03/21 20:25	EPA 8260B	JMG	



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Converse	Project:	DUNBAR PROJECT
2738 West College Avenue	Project Number:	[none]
State College PA, 16801	Collector:	CLIENT
Project Manager: Orion Cook	Number of Containers:	31

Notes

- | | |
|----|---|
| B1 | This sample was received outside the EPA holding time. |
| K | The RPD result exceeded the quality control limits for the duplicate, Laboratory Control Sample Duplicate (LCSD), or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch. |
| Q | Sample was analyzed at a dilution. Reporting limits were adjusted accordingly. |
| S | This analysis has been reported to the MDL; therefore it is an estimated value. |



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Converse	Project: DUNBAR PROJECT	
2738 West College Avenue	Project Number: [none]	Reported:
State College PA, 16801	Collector: CLIENT	11/10/21 16:35
Project Manager: Orion Cook	Number of Containers: 31	

Definitions:

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

+ MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be considered as analyzed outside the EPA holding time.

^ The following analytes are to be filtered immediately upon sampling: Hexavalent Chromium. Filtration through a 0.45 micron filter within 15 minutes of sampling is required for compliance with the Clean Water Act (CWA) for reporting of hexavalent chromium to prevent interconversion of chromium species.

* **Analysis location indicator:**
D: Indicates analysis performed by Fairway Laboratories, Inc., 110 McCracken Run Rd., DuBois, PA 15801. PA DEP Chapter 252 certification: PA 33-00258.
E: Indicates analysis performed by Fairway Laboratories, Inc., 1920 East 38th Street, Erie, PA 16510. NELAP certification: PA 25-05907.
P: Indicates analysis performed by Fairway Laboratories, Inc., 89 Kristi Rd., Pennsdale, PA 17756. PA DEP Chapter 252 certification: PA 41-04684.
W: Indicates analysis performed by Fairway Laboratories, Inc., 1980 Golden Mile Rd., Wysox, PA 18854. NELAP certification: PA 08-05622 and NY 12127.

< Represents "less than" - indicates that the result was less than the RL, or the MDL if indicated for the parameter.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values. If Radiological results are reported, the MDC - Minimum Detectable Concentration is shown in the MDL column.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

ND Non Detect. The noted analyte was not detected in the sample.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Converse	Project: DUNBAR PROJECT	
2738 West College Avenue	Project Number: [none]	Reported:
State College PA, 16801	Collector: CLIENT	11/10/21 16:35
Project Manager: Orion Cook	Number of Containers: 31	

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody. Samples received at the laboratory after business hours are verified on the next business day. Discrepancies are documented on the Receiving Document.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Please print. See back of COC for instructions/terms and conditions.

FAIRWAY



1K01046

Client Page # 1 of 9

Page 21 of 23

Client Name: <u>Converse Consultants</u> Address: <u>2738 West College Ave.</u> <u>State College PA 16801</u> Contact: <u>Orion B. Cook</u> Phone #: <u>814-234-3223</u> Fax #: _____ Project Name: <u>Dunbar</u> Quote/PO #: _____			Received on ice? <input checked="" type="checkbox"/> N Sample Temp: _____		Reportable to PADEP? Yes <input type="checkbox"/> PWSID # _____		Analyses Requested PADEP Shortlist for unleaded Gasoline Benzene, Toluene, Ethylbenzene, total xylene, isopropylbenzene, MTBE, Naphthalene						LAB USE ONLY Work Order # <u>11201046</u> Attach # <u>1</u> FLI Page # <u>3</u> of <u>3</u> Tracking # _____					
TAT: Normal <input type="checkbox"/> Rush <input type="checkbox"/> Rush TAT subject to pre-approval and surcharge. Date Required: ____/____/____			GRAB <input type="checkbox"/> Composite <input type="checkbox"/>		GRAB -or- Composite Start End		Matrix Solid Water Other		# of Containers		Military or AM/PM required						Bottle Type/Comments	
Sample Description/Location			GRAB <input type="checkbox"/> Composite <input type="checkbox"/>		Start Date Start Time End Date End Time		Solid Water Other		# of Containers		PADEP Shortlist for unleaded Gasoline Benzene, Toluene, Ethylbenzene, total xylene, isopropylbenzene, MTBE, Naphthalene						Bottle Type/Comments	
1 MW-3 2 MW-105 3 MW-12 4 MW-125 5 MW-155 6 MW-185 7 MW-195 8 MW-205 9 MW-215 10 MW-225 11 MW-265			<input checked="" type="checkbox"/> <input type="checkbox"/>		10/28/12 131P 1247 1236 1216 1119 1146 1044 1030 1015 1159 10/29/12 958		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		2 2 2 2 2 2 2 2 2 2 2		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>						1.9° 2X HCL 2.9° 2.9° 2.8° 2.3° 2.10° 1.0° 1.6° 1.5° 4.10° 1.6°	
Sampled by: <u>Geal [Signature]</u>			Received by: <u>[Signature]</u>		Date <u>4/2/14</u> Time <u>11:45</u>		Remarks <u>P-63</u>											
Relinquished by: _____			Date _____ Time _____		Received by: <u>[Signature]</u>		Date <u>4/2/14</u> Time <u>15:45</u>		<u>Keep LDL under SHS</u>									
Relinquished by: _____			Date _____ Time _____		Received by: _____		Date _____ Time _____											
Relinquished by: _____			Date _____ Time _____		Received by: _____		Date _____ Time _____											

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

Receiver: YK

Chain of Custody Receiving Document

Page 3 of 3Date/Time of this check: 11/12/21 620 Client: Converse Lab # 1K01046Received on ICE? 4 ☐ * Sample Temperature when delivered to the Lab: 4.1 °C Acceptable? 4 ☐ * or In cool down process? ☐ *

(Not applicable for WV compliance)

Custody Seals? 0 Intact? NAMorning Temperature Verification <6°C (if applicable): ☒COC/Labels on bottles agree? ✓ ☐ *Correct containers for all the analysis requested? 4 ☐ * Matrix: WVAc

COC #	Number and Type of BOTTLES										Comments
	Poly Non-Pres.	Poly H2SO4	Poly HNO3	Amber H2SO4	Amber Non-Pres.	Poly NaOH	VOCS (Head space?)	Other <input type="checkbox"/> *	Properly Preserved <input type="checkbox"/> *	Bacti	
1							NO				* Internal notification completed for deviations.
14							2HCl				
15							1HCl				

* DEVIATION PRESENT:

- ☒ No Ice ()
☒ Not at Proper Temperature ()
☒ Wrong Container ()
☒ Missing Information: ()

CLIENT CALLED:

YES ()

By Whom:

Date: _____

CLIENT RESPONSE:

Proceed with analysis; qualify data ()

Will Resample ()

Provided Information ()

No Response; Proceed and qualified ()

Client Contact: _____ Date: _____

* Comments: TB- received out of Hld.GAC 10/28/21 1355