Converse Consultants
Geotechnical Engineering, Environmental and Groundwater Science, Inspection and Testing Services

April 25, 2018

Ms. Julia Gorman
PADEP Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222

Reference: First Quarter 2018 Remedial Action Progress Report
PAUSTIF Claim #1996-0116(F)
PADEP Facility ID #26-18711
Former Route 119 Amoco Facility
1809 University Drive
Connellsville, Dunbar Township
Fayette County, Pennsylvania 15431
(Converse Project No. 13-17313-01)

Ladies and Gentlemen:

Converse Consultants (Converse) on behalf of Timothy and Michelle Shell is pleased to submit the attached Remedial Action Progress Report (RAPR) for the reporting period of January 1, 2018 through March 31, 2018.

Should you have questions regarding this submission, please do not hesitate to contact us.

Sincerely,

CONVERSE CONSULTANTS

Mary Feerrar
Environmental Project Manager

DWS:MF

cc: Ms. Bethany Smith, ICF International
Timothy and Michelle Shell

2738 West College Avenue, State College, Pennsylvania 16801
Telephone: (814) 234-3223 ♦ Facsimile: (814) 234-3255 ♦ e-mail: statecollege@converseconsultants.com

REPORTING PERIOD:

January 1, 2018 through March 31, 2018

CONTACTS:

Project Manager: Ms. Mary Feerrar, Converse Consultants, State College, PA (814-234-3223) (mfeerrar@converseconsultants.com)

Owner Contact: Mick McGuire, Dunbar, PA (724-628-5570)

RECENT ACTIVITY SUMMARY:

1/11/2018 – Absorbent sock replacement
1/25/2018 – Absorbent sock replacement
2/8/2018 – Absorbent sock replacement
2/22/2018 – Absorbent sock replacement
3/6/2018 – LNAPL recovery well install and absorbent sock replacement
3/19/2018 - LNAPL recovery well development, quarterly groundwater sampling and absorbent sock replacement

ON-GOING FIELD ACTIVITIES:

Well Gauging:	Quarterly.
Passive Product Recovery:	Product was present in Monitoring Wells MW-10S, MW-12S, MW-18S, MW-22S and RW-1. Absorbent socks were applied in each well to capture product. Sock replacement occurs twice per month.
Product Gauging:	Twice per month.
Groundwater Sampling:	Quarterly.
Remedial System Operation and Maintenance:	System not active. See REMEDIATION SYSTEM below.
Remedial System Sampling Date(s):	Not applicable (NA).
Additional Activities:	None.

QUARTERLY GROUNDWATER SAMPLING DATA SUMMARY:

Groundwater Sampling Date(s):	March 19, 2018.
Separate Phase Liquid (SPL) Measurement:	Oil/Water Interface Probe.
Groundwater Sampling Methods:	3 well volumes as described in Converse, 2013.

Monitoring Wells Sampled:	MW-3, MW-6, MW-7, MW-8, MW-10, MW-10S, MW-12, MW-12S, MW-15S, MW-16, MW-18S through MW-26S, and the pond (**Appendix A: Figure 2**).
Depth to Groundwater:	8.05 (MW-21S) to 22.88 (MW-12S) feet below top of casing in the shallow aquifer and 15.14 (MW-3) to 44.18 (MW-7) feet below TOC in the deep aquifer (see **Appendix B: Table 1**)
Recovery Wells Sampled:	None
Laboratory Analysis:	PADEP 2008 Unleaded Gasoline Short List Compounds.
Groundwater Sample Results:	See comments below and **Appendix B: Table 2.**
Groundwater Flow Direction:	South and West (shallow), Northwest (deep), see **Appendix A: Figures 3 and 4.**
SPL Thickness:	Sheen was observed in monitoring wells MW-10S, MW-12S, MW-18S, and MW-22S during the first quarter 2018. Product mixed with sediment and turbid water was observed in RW-1. See **Appendix B: Table 3**.

Comments:

As presented in **Appendix A: Figures 5 through 9** and in **Appendix B: Table 2**, compounds of concern (COCs) were identified at concentrations that exceed the Statewide Health Standards (SHS) medium specific concentrations (MSCs) at the following wells:

Monitoring Well MW-10S:	Benzene (49.9 µg/L)
Monitoring Well MW-12:	Benzene (85.6 µg/L) and MTBE (102 µg/L)
Monitoring Well MW-12S:	Benzene (494 µg/L), MTBE (142 µg/L) and Naphthalene (171 µg/L)
Monitoring Well MW-15S:	Benzene (13.9 µg/L)
Monitoring Well MW-18S:	Benzene (280 µg/L), MTBE (67 µg/L), and naphthalene (108 µg/L)
Monitoring Well MW-19S:	Benzene (6.3 µg/L) and MTBE (108 µg/L)
Monitoring Well MW-20S:	Benzene (21.6 µg/L) and MTBE (60.4 µg/L)
Monitoring Well MW-21S:	Benzene (5.15 µg/L)
Monitoring Well MW-22S:	Benzene (105 µg/L) and MTBE (28.5 µg/L)

Charts of contaminant concentration versus time are included in **Appendix C** for all wells where constituents were identified above their respective RMSC. Decreasing trends are

identified for all constituents in all wells except: benzene and MTBE at MW-15, MTBE at MW-19S, benzene at MW-20S, and MTBE at MW-27S. Constituent trends will continue to be evaluated each quarter. Laboratory analytical data sheets are included in **Appendix D**.

Variances:

None.

REMEDIATION SYSTEM:

An SVE and AS was decommissioned by Chambers Environmental in June 2000. The system was altered by RETTEW to incorporate bioaugmentation and deactivated in July 2005.

Comments:

Remediation system was previously decommissioned and removed from site.

Variances:

None.

LNAPL Recovery Well Install:

On March 6, 2018, two (2) LNAPL recovery wells (RW-1 and RW-2) were installed at the site on the northwest side of Hi-Way Supply Road. Each well was installed to a total depth of 30 feet below ground surface. Well construction consists of 15 feet of screen (15 feet to 30 feet) topped with solid PVC riser to the ground surface. Each well was finished with a locking-expandable gripper cap and drive over steel manway installed within a concrete pad. Refer to **Appendix E** for LNAPL Recovery well construction logs. Recovery well locations are illustrated on **Figure 2 of Appendix A**.

LNAPL Recovery:

Interim remedial measures have been implemented to periodically remove LNAPL from monitoring wells where it is observed. Oil sorbent socks (New Pig 1.5" diameter or similar) are used to recover LNAPL from any well with evidence of LNAPL. During the first quarter of 2018, absorbent socks were installed in MW-10S, MW-12S, MW-18S, MW-22S, RW-1, and RW-2.

Sorbent socks are replaced every two weeks (approximate). The spent socks are weighed with a digital scale prior to being containerized in labelled drums that are stored at the site. The drums will be dispositioned by EAP Industries of Atlasburg, Pennsylvania in accordance with applicable regulations. LNAPL recovery will continue through 2018 or until LNAPL is removed to the maximum extent practical. A summary of LNAPL recovery events is included in **Appendix B: Table 3**.

Water levels and sock weights from each well are compared on charts included in **Appendix F**. Each chart also contains a trend line that illustrates if the sock weights are increasing or decreasing over time. Results of the comparison are summarized below.

MW-12S: Sock weights are decreasing. An indirect relationship is apparent between sock weights and water levels over the three (3) most recent sock replacement events, where as water levels increase, sock weights decrease, and vise versa.

MW-18S: Sock weights are decreasing. No correlation between sock weights and water levels is apparent at this well.

MW-22S: Sock weights are decreasing. A direct relationship between water level and sock weight is apparent from January 11 through March 6, 2018. No correlation is identified between the data collected during the most recent sock replacement event.

It is noted that there is not enough data to perform this comparison at MW-10S, RW-1, or RW-2. This comparison will be performed at the aforementioned wells as additional data becomes available.

PLANNED ACTIVITIES:

Well Gauging:	May 2018
Manual Bailing for Product Recovery:	Not planned
Groundwater Sampling:	May 2018
Remedial System Operation and Maintenance:	NA
Remedial System Sampling Date(s):	NA
Absorbent Sock Replacement:	Twice per month

APPENDICES:

Appendix A:

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Contour Map (Shallow Bedrock)
- Figure 4: Groundwater Elevation Contour Map (Deep Bedrock)
- Figure 5: Benzene Concentrations (Shallow Bedrock)
- Figure 6: MTBE Concentrations (Shallow Bedrock)
- Figure 7: Naphthalene Concentrations (Shallow Bedrock)
- Figure 8: Benzene Concentrations (Deep Bedrock)
- Figure 9: MTBE Concentrations (Deep Bedrock)

Appendix B:

- Table 1: Groundwater Elevations
- Table 2: Groundwater Analytical Summary
- Table 3: LNAPL Summary

Appendix C: Groundwater Analytical Trend Graphs

Appendix D: Laboratory Reports and Chain of Custody Documents

Appendix E: Recovery Well Construction Logs

Appendix F: Water Level vs. Sock Weight Charts

NOTES:

None.

REFERENCES:

Act 2, 1995. Pennsylvania Act 2 of 1995: Land Recycling and Environmental Remediation Standards Act (35 P.S. '6026).

Act 32, 1989. Pennsylvania Act 32 of 1989: Storage Tank and Spill Prevention Act (35 P.S. '6021).

§245, 25 Pennsylvania Code Chapter 245 (§245). Subchapter D: Corrective Action Process for Owners and Operators of Storage Tanks and Storage Tank Facilities and Other Responsible Parties.

§250, 25 PA Code Chapter 250 (§250): Administration of the Land Recycling Program.

Converse, 2013. Environmental Services Technical and Cost Proposal, PADEP Facility ID#26-18711, PAUSTIF Claim #1996-0116(F), Former Route 119 Amoco Facility, 1809 University Drive (Route 119), Dunbar Township, Fayette County, Pennsylvania, 15431, March 26, 2013, Converse Consultants, State College, PA.

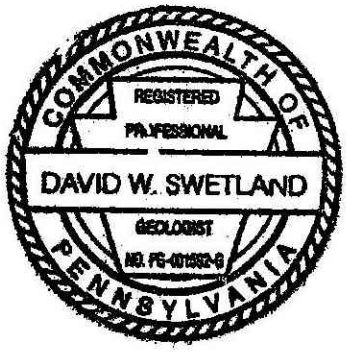
Supplemental Site Characterization and Remedial Action Plan, prepared by Converse, submitted to PADEP September 18, 2017, approved by PADEP in a letter dated October 31, 2017.

PADEP, 1998. Technical Document, Closure Requirements for Underground Storage Tank Systems, PADEP 253-4500-601, December 1998.

PADEP, 2002. Land Recycling Program Technical Guidance Manual, PADEP 253-0300-100, May 4, 2002: with amended 2008.

PAGWIS, 2010. Pennsylvania Groundwater Information System, Pennsylvania Department of Conservation and Natural Resources (http://www.dcnr.state.pa.us/topogeo/groundwater/PaGWIS/PaGWISMenu.asp?c=t)

PG SEAL: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REGISTERED
PROFESSIONAL
DAVID W. SWETLAND
GEOLOGIST
PENNSYLVANIA

APPENDIX A

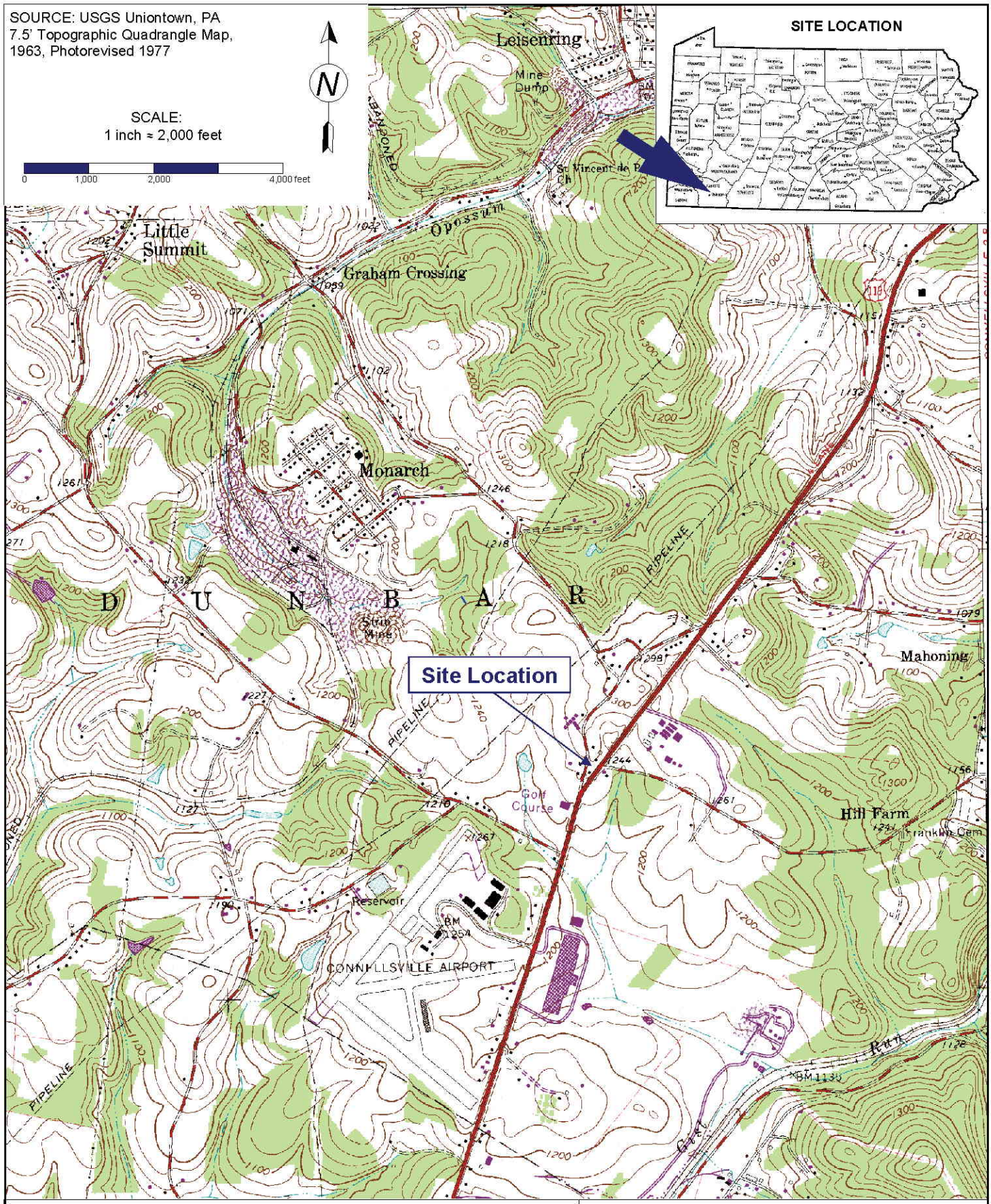

FIGURE 1: SITE LOCATION MAP

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
2738 West College Avenue
State College, PA 16801
(814) 234-3223

FIGURE 2: SITE PLAN

FORMER AMOCO
ROUTE 119
DUNBAR, PENNSYLVANIA

Converse Project Number 13-17313-01

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State College, PA 16801
814-234-3223

FIGURE 3: SHALLOW BEDROCK GROUNDWATER CONTOUR - 3/19/19

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

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FIGURE 4: DEEP BEDROCK GROUNDWATER CONTOUR - 3/19/18

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

Converse Project Number 13-17313-01

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State College, PA 16801
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FIGURE 5:BENZENE ISOCONCENTRATION MAP IN SHALLOW BEDROCK - 3/19/18

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

Converse Project Number 13-17313-01

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FIGURE 6: MTBE ISOCONCENTRATION MAP IN SHALLOW BEDROCK - 3/19/18

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

Converse Project Number 13-17313-01

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FIGURE 7: NAPTHALENE ISOCONCENTRATION MAP IN SHALLOW BEDROCK - 3/19/18

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

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FIGURE 8:BENZENE ISOCONCENTRATION MAP IN DEEP BEDROCK - 3/19/18

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

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FIGURE 9: MTBE ISOCONCENTRATION MAP IN DEEP BEDROCK - 3/19/18

OLD AMOCO SITE
ROUTE 119
DUNBAR, PENNSYLVANIA

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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
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
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
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

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
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
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
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

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
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	WD	WD
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	WD	WD
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	WD	WD
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

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

WELL	TWD	SI	TOC	DATE	DTW	GW ELEV
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
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	WD	WD
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
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

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
MW-21S Shallow	30.00	15 to 30	1,226.37	6/24/14	4.65	1221.72
				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
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
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

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
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
MW-26S Shallow	32.00	17 to 32	1,230.69	6/30/16	13.86	1216.83
				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
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

(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.
TOCG = 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.
WD = Well Destroyed NS = Not Sampled.
6/29/17- Shallow Monitoring well water levels were recorded 7/7/17

TABLE 2
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
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
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
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
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

TABLE 2
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-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
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
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
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**
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	WD	WD	WD	WD	WD	WD	WD
	9/28/2017	WD	WD	WD	WD	WD	WD	WD
	9/28/2017	WD	WD	WD	WD	WD	WD	WD

TABLE 2
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-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	WD	WD	WD	WD	WD	WD	WD
	9/28/2017	WD	WD	WD	WD	WD	WD	WD
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	WD	WD	WD	WD	WD	WD	WD
	9/28/2017	WD	WD	WD	WD	WD	WD	WD
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
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
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	WD	WD	WD	WD	WD	WD	WD
	9/28/2017	WD	WD	WD	WD	WD	WD	WD
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**

TABLE 2
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
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
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
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
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
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

TABLE 2
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
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
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						
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
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

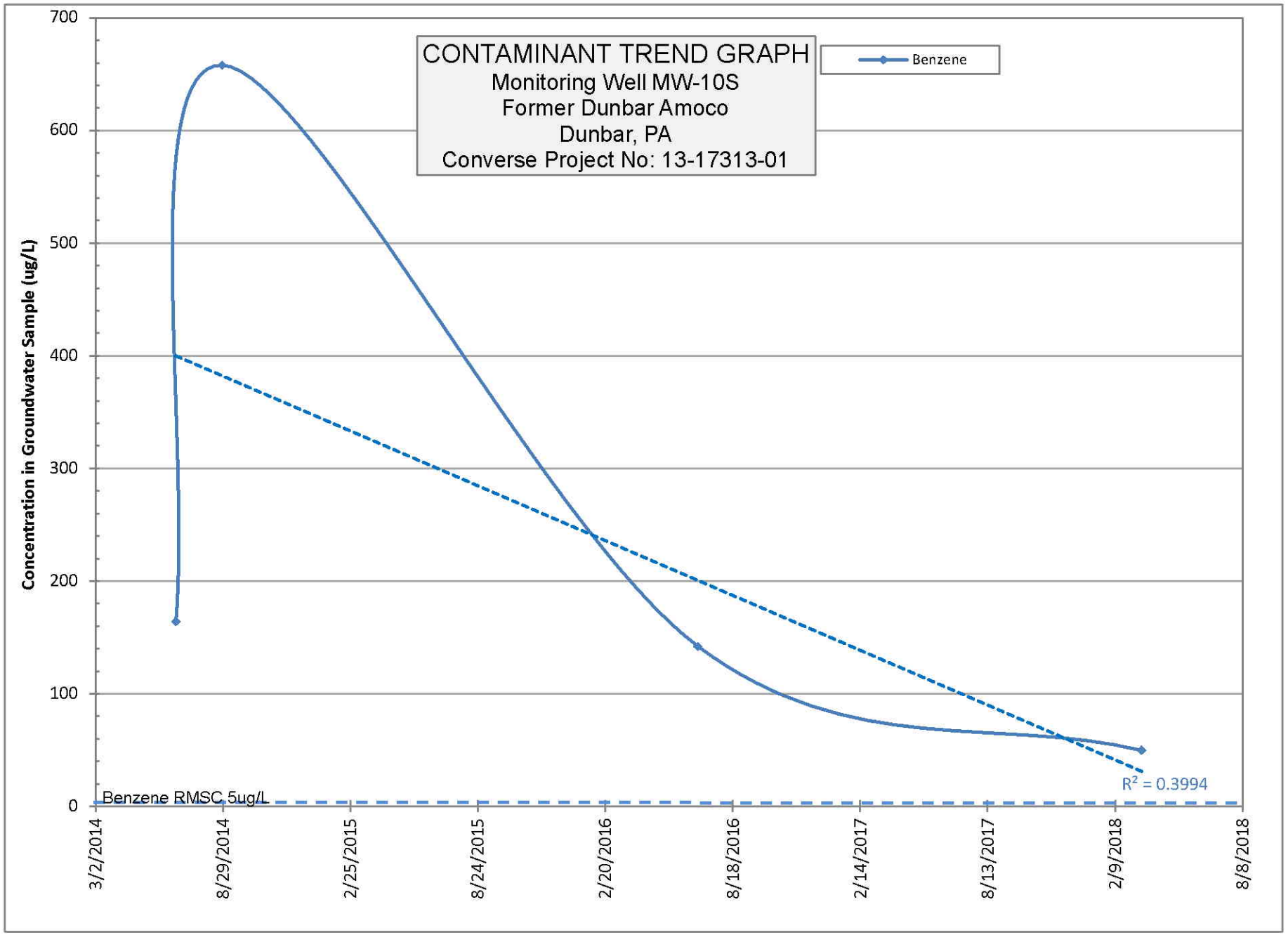
Notes:
Concentrations measured in micrograms per liter (ug/L)
NS - Not Sampled
NA - Not Analized
WD - Well destroyed
MTBE - Methyl-Tert Butyl Ether
1,3,5-TMB: 1,3,5-Trimethylbenzene
1,2,4-TMB: 1,2,4-Trimethylbenzene
** Isopropylbenzene is also known as cumene
1.3/1.7 represents a duplicate sample taken
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

Table 3
LNAPL Thickness
Former Dunbar Amoco
13-17313-01

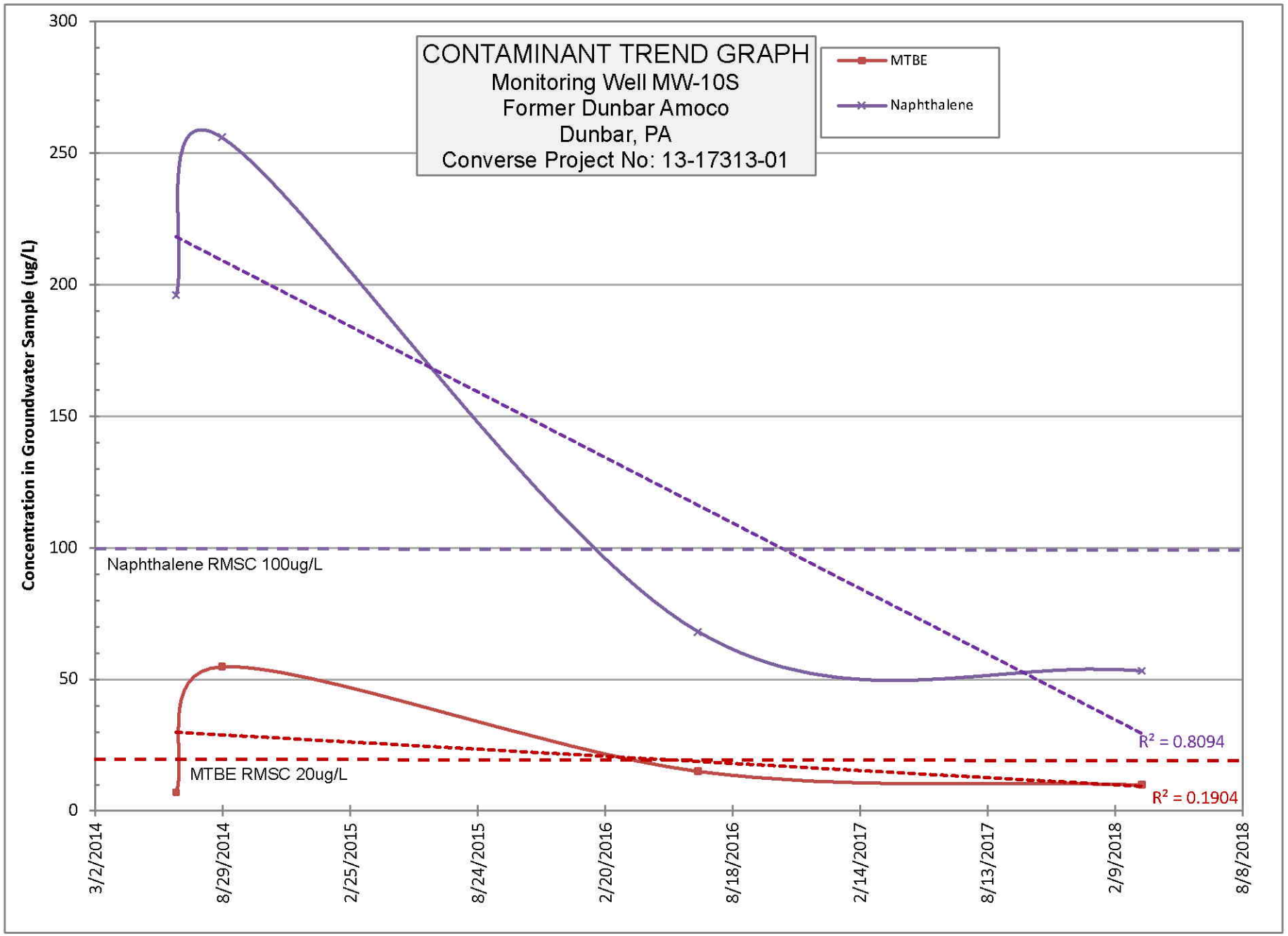
	MW-10S			MW-12S			MW-12		MW-15S		MW-18S			MW-22S			MW-26S		RW-1			RW-2		
Date	Depth to Water	LNAPL Thickness		Depth to Water	LNAPL Thickness	Sock Weight	Depth to Water	LNAPL Thickness	Depth to Water	LNAPL Thickness	Depth to Water	LNAPL Thickness	Sock Weight	Depth to Water	LNAPL Thickness	Sock Weight	Depth to Water	LNAPL Thickness	Depth to Water	LNAPL Thickness	Sock Weight	Depth to Water	LNAPL Thickness	Sock Weight
6/30/2016	15.46	0		24.55	3	NA	36.65	0	13.55	0	17.6	0	NA	15.6	0	NA	13.86	0			NA			NA
9/20/2016	17.56	0		25.7	0.25	NA	37.28	0	14.62	0	NM	0	NA	NM	NM	NA	15.64	0			NA			NA
6/29/2017	13.79	Sheen		21.74	0.5	NA	30.41	0	13.43	0	14.12	sheen	NA	14.82	0	NA	12.89	0			NA			NA
9/28/2017	NS	NM		25.03	0.25	NA	37.55	0	14.55	0	14.25	0	NA	15.43	0	NA	13.54	0			NA			NA
9/29/2017	NM	NM		NM	NM*	NA	NM	NM	NM	NM	NM	NM	NA	NM	NM	NA	NM	NM			NA			NA
10/2/2017	NM	NM		NM	NM*	NA	NM	NM	NM	NM	NM	NM	NA	NM	NM	NA	NM	NM			NA			NA
10/11/2017	NM	NM		25.57	0*	NA	NM	NM	NM	NM	NM	NM	NA	NM	NM	NA	NM	NM			NA			NA
10/30/2017	NM	NM		24.92	NM*	NA	NM	NM	NM	NM	NM	NM	NA	NM	NM	NA	NM	NM			NA			NA
11/9/2017	IA	NM		18.92	0*	NA	36.54	0	11.68	0	13.85	sheen	NA	14.73	0	NA	13.25	0			NA			NA
11/29/2017	NM	NM		22.27	sheen*	NA	NM	NM	NM	NM	NM	NM	NA	NM	NM	NA	NM	NM			NA			NA
12/13/2017	OB	OB		19.29	sheen*	NA	36.98	0	13.67	0	13.91	sheen*	NA	14.83	sheen	NA	13.00	0			NA			NA
12/27/2017	OB	OB		21.75	sheen*	NA	37.18	0	13.96	0	13.65	sheen*	NA	14.59	sheen*	NA	14.20	0			NA			NA
1/11/2018	OB	OB		19.7	sheen*	360	36.82	0	14.32	0	14.79	sheen*	510	15.05	sheen*	270	14.35	0			NA			NA
1/25/2018	OB	OB		21.35	sheen*	430	37.08	0	13.12	0	13.89	sheen*	209	14.34	sheen*	281	12.70	0			NA			NA
2/8/2018	OB	OB		19.62	sheen*	122	35.96	0	11.67	0	13.61	sheen*	98	13.93	sheen*	198	11.56	0			NA			NA
2/22/2018	OB	OB		18.81	sheen*	328	35	0	9.9	0	11.54	sheen*	175	12.21	sheen*	107	10.07	0			NA			NA
3/6/2018	12.16	NA		21.16	sheen*	150	35.60	0	10.65	0	12.37	sheen*	103	12.20	sheen*	100	10.98	0	Wells installed / socks installed this date					
3/19/2018	13.58	heavy sheen*^		22.88	sheen*	110	37.13	0	12.61	0	13.78	heavy sheen*	122	14.53	sheen*	87	11.25	0	NA	heavy sheen*^	412	NA	0	106
4/4/2018	12.44	sheen*	214	23.15	sheen*	85	34.23	0	10.3	0	12.84	sheen*	70	13.3	sheen*	75	10.41	0	24.35	heavy sheen*^	296	14.72	sheen*	71
4/18/2018	12.27	sheen*	84	23.88	heavy sheen*	83	35.06	0	10.22	0	13.56	sheen*	112	13.44	sheen*	129	11.51	0	24.72	heavy sheen*^	277	15.2	sheen*	74

IA: inaccessible
NM: not measured
LNAPL measured in inches
OB: Obstruction in well.
NA: Not applicable
*: Sock in well.
MW-10S covered by tires until 3/19/2018
Sock weight reported in grams
Dry sock weight: 81 grams prior to 4/4/2018, 60 grams after 4/4/2018.
^product mixed with water. Product was not measurable

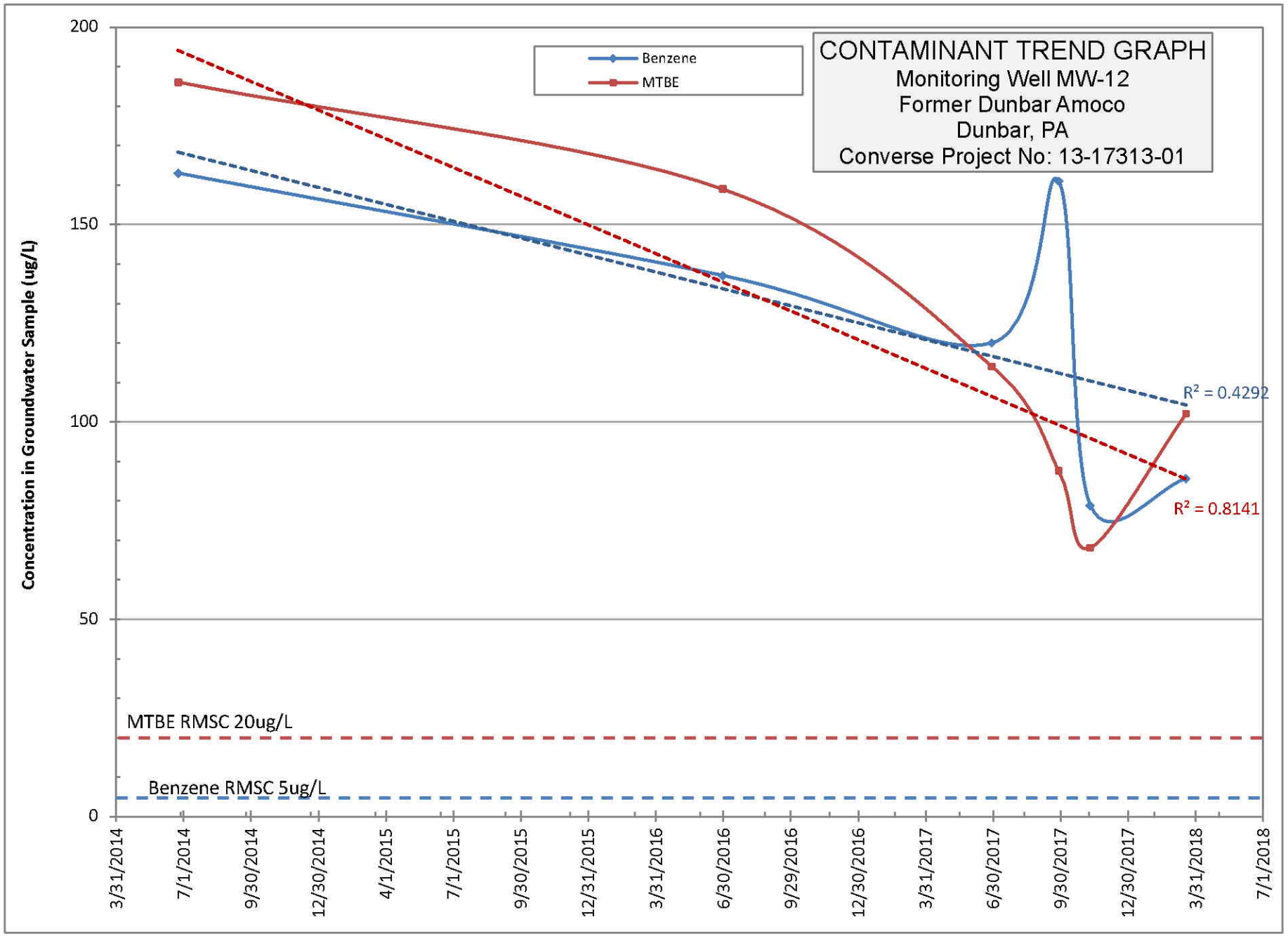
APPENDIX C



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.



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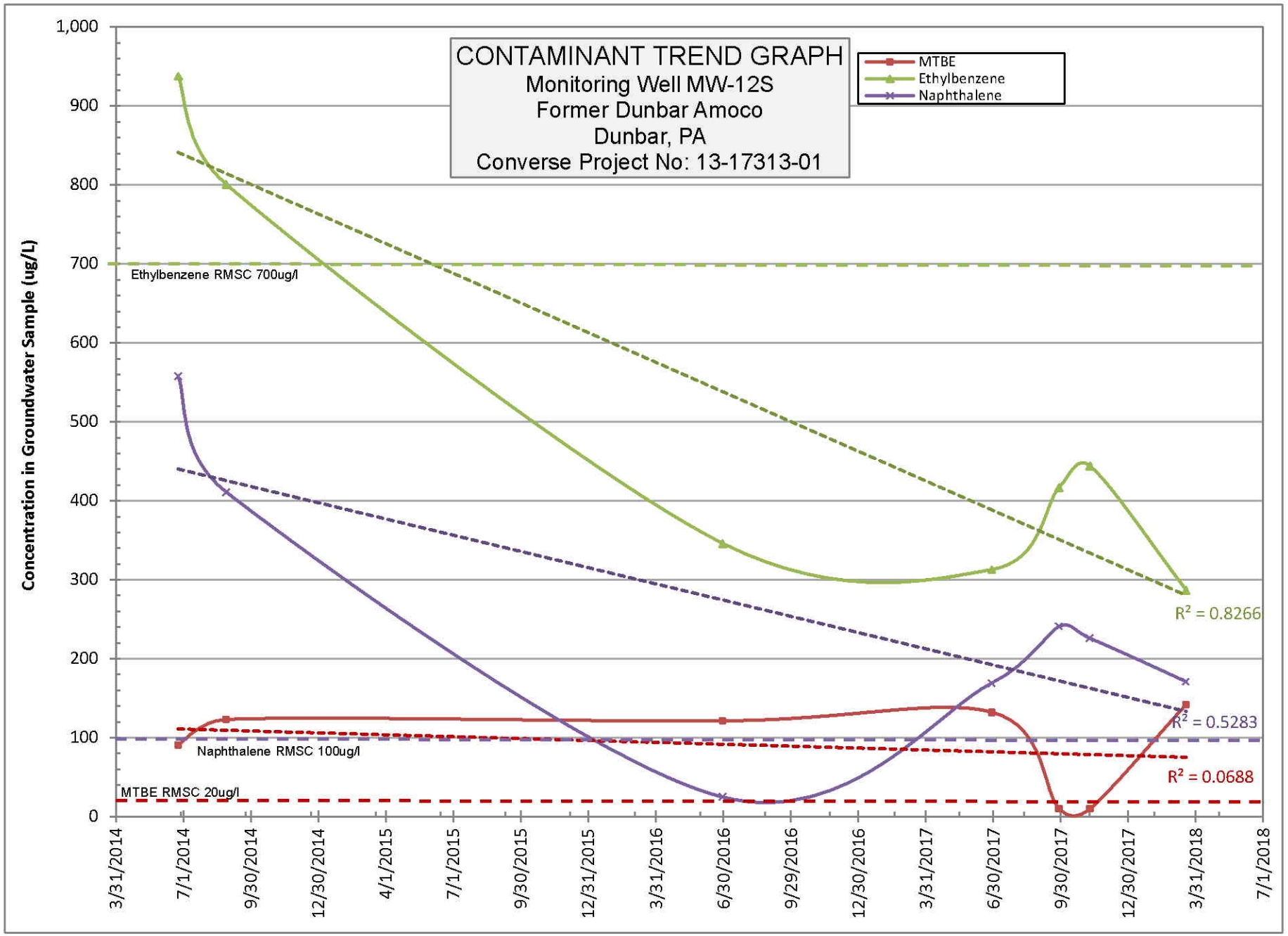

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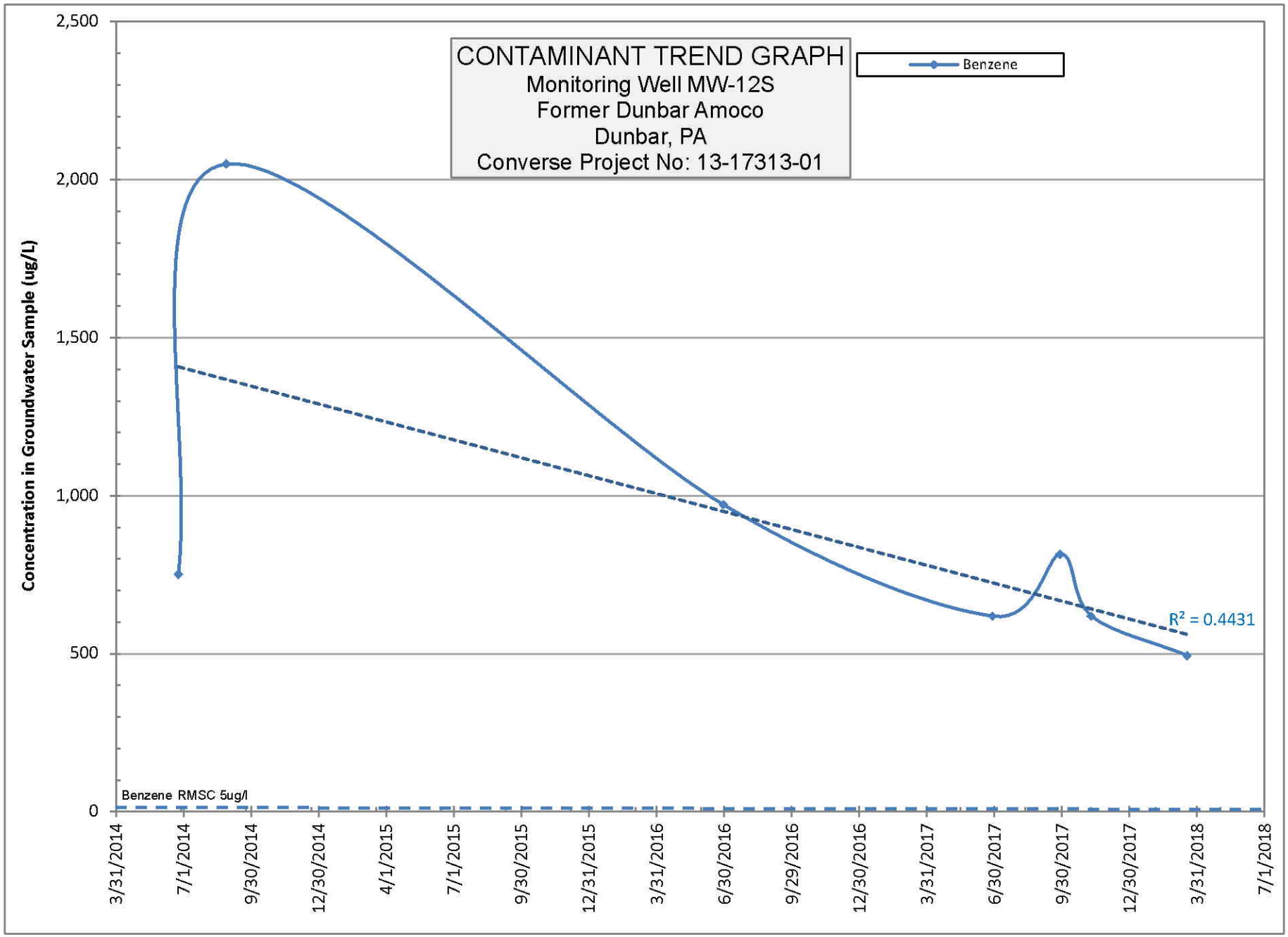

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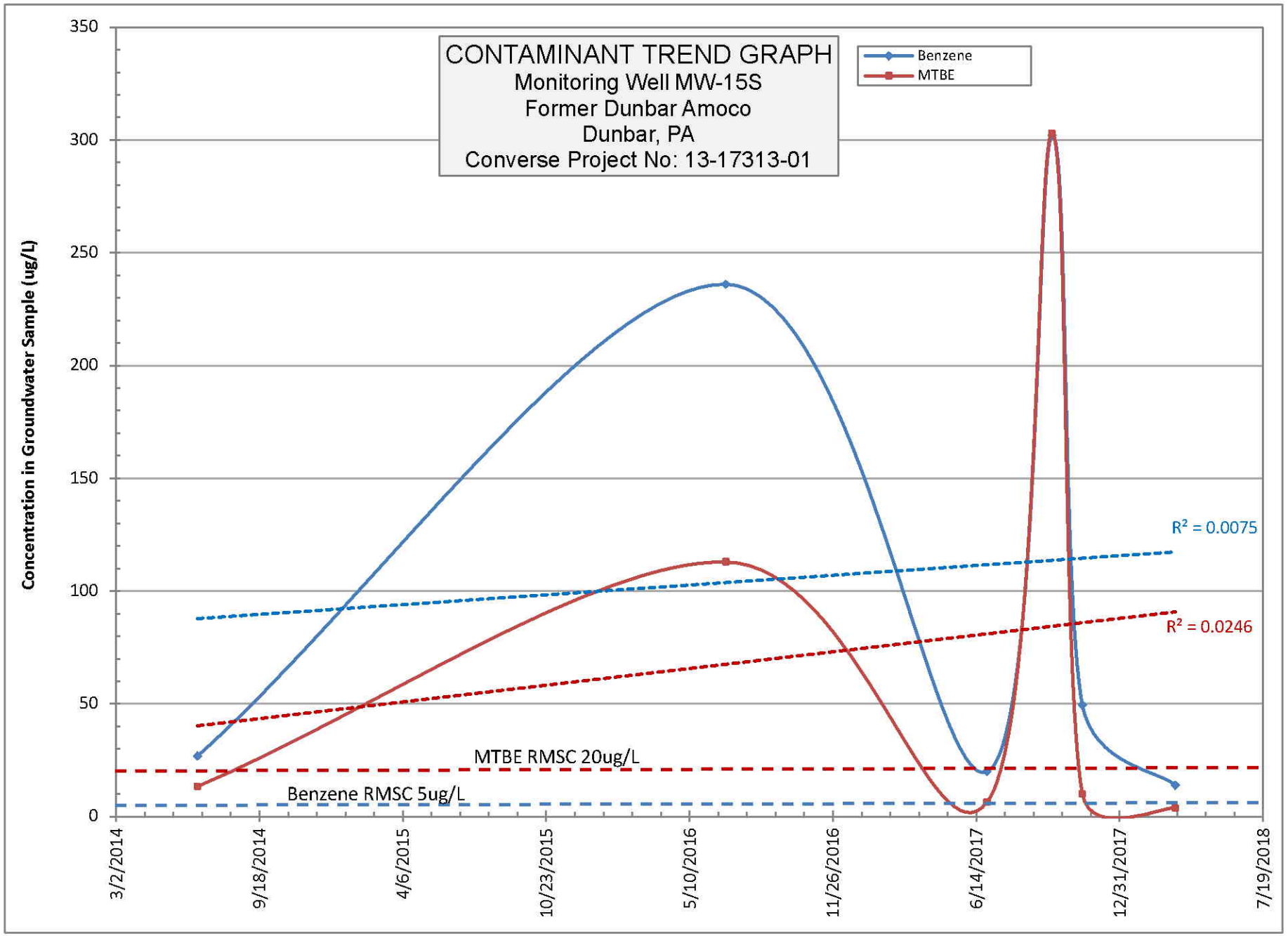

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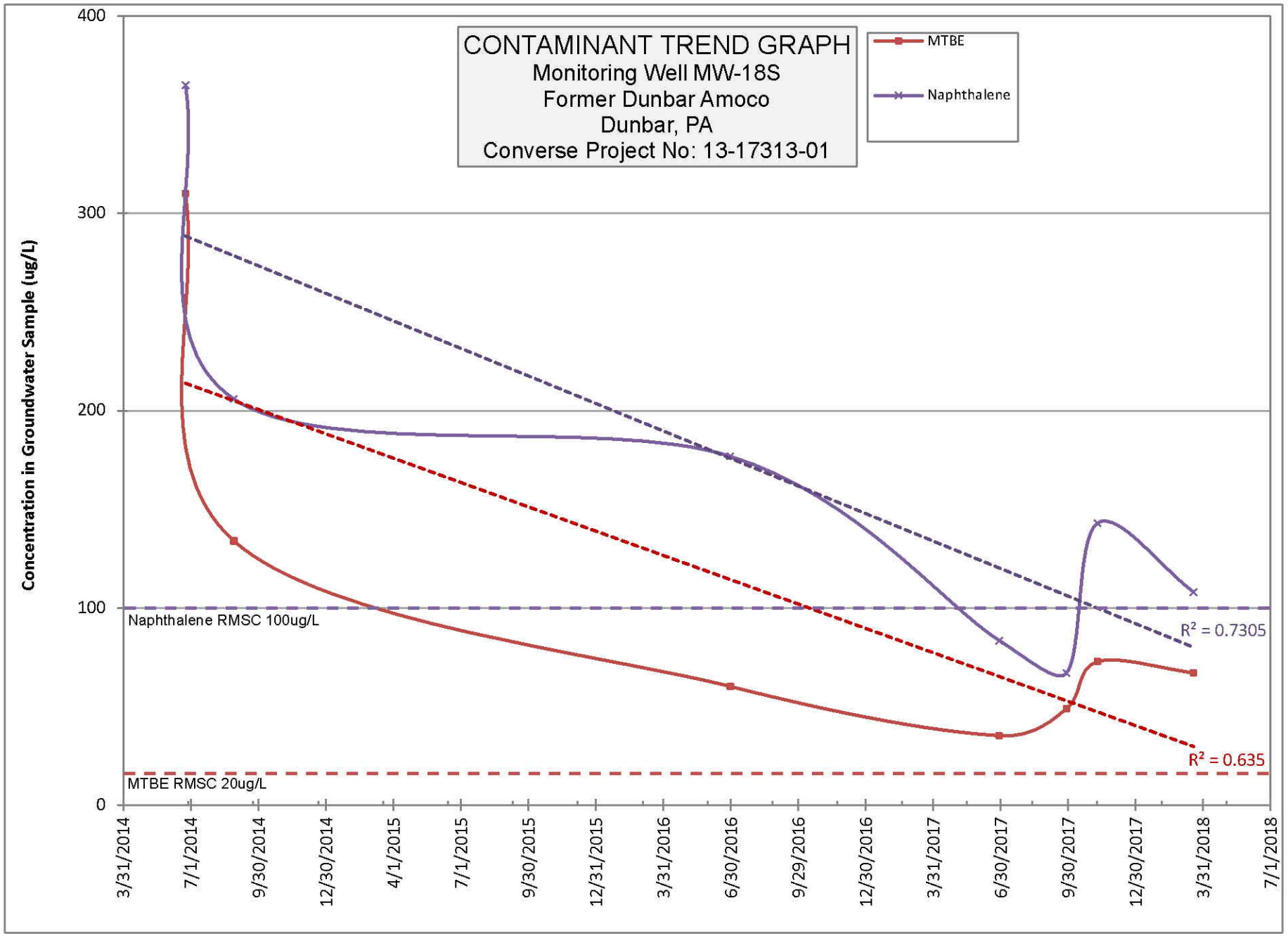

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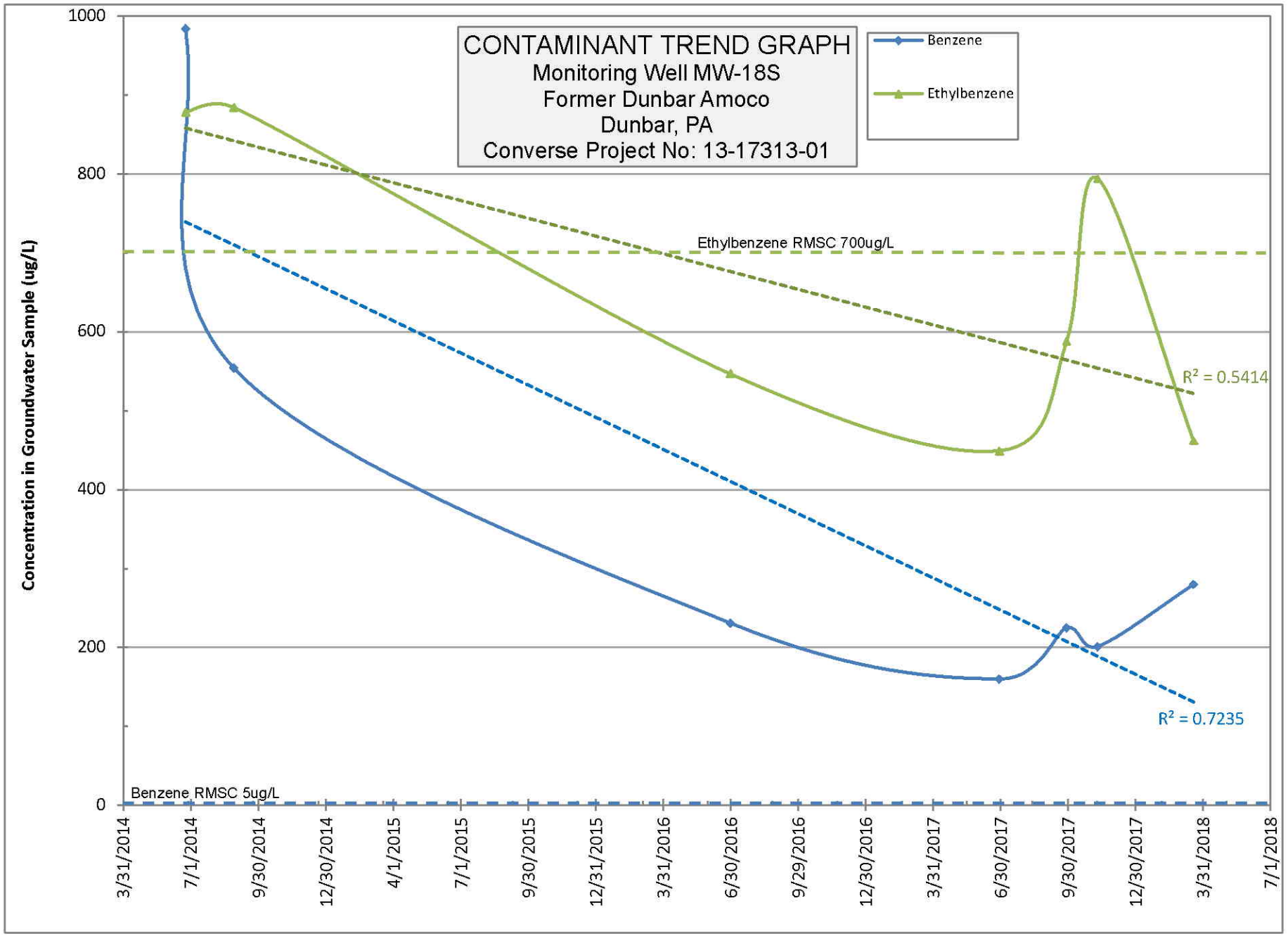

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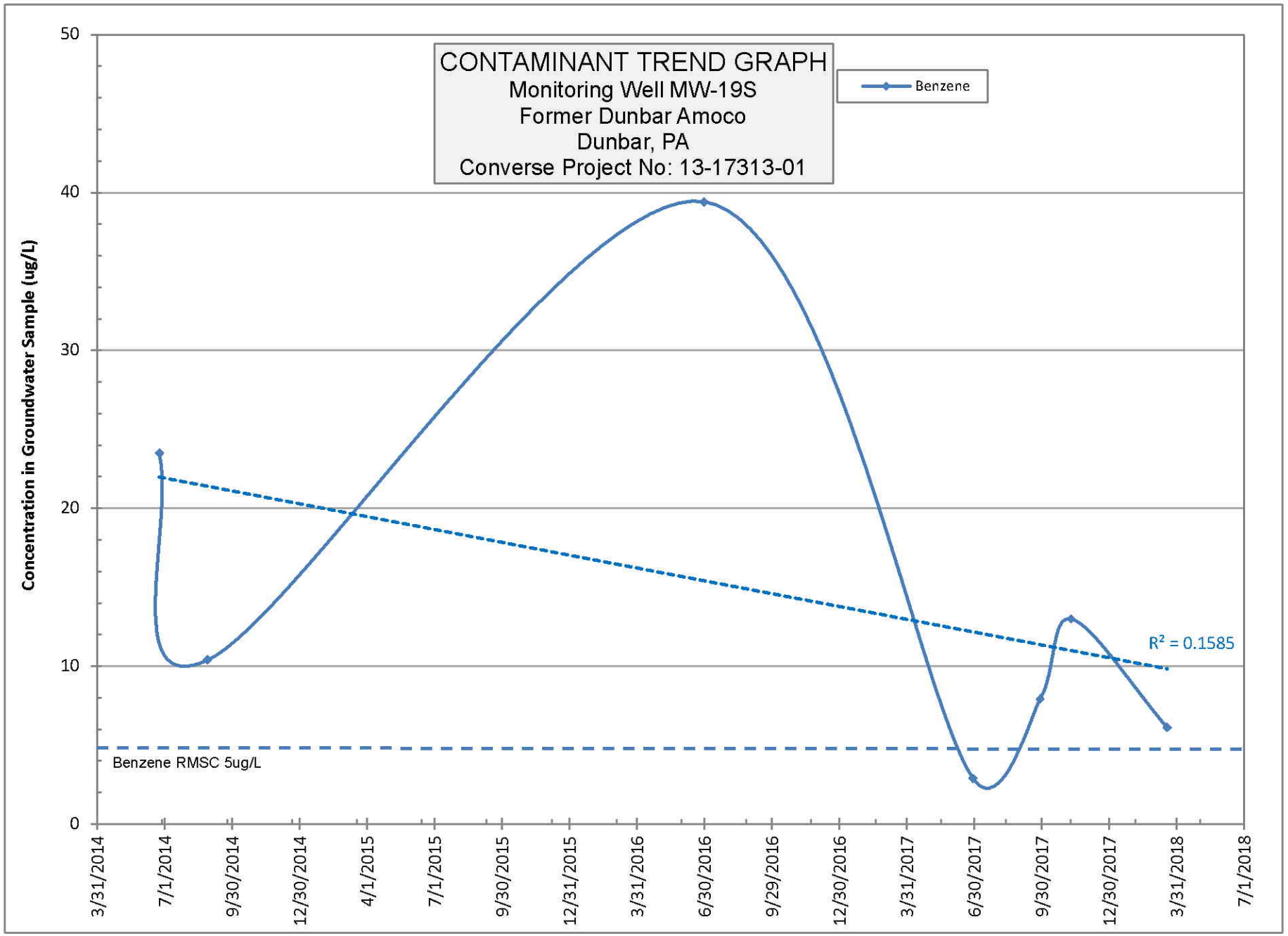

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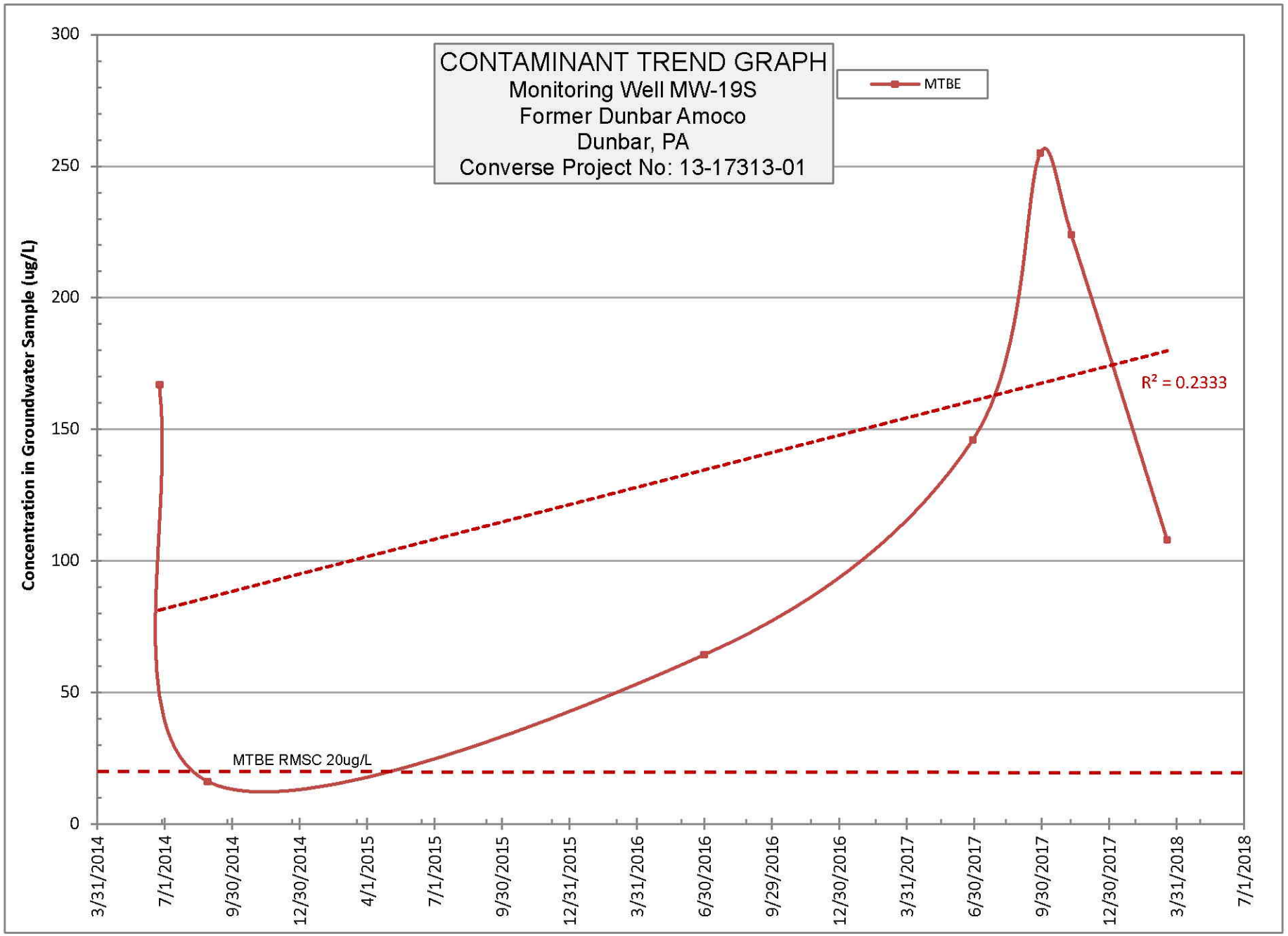

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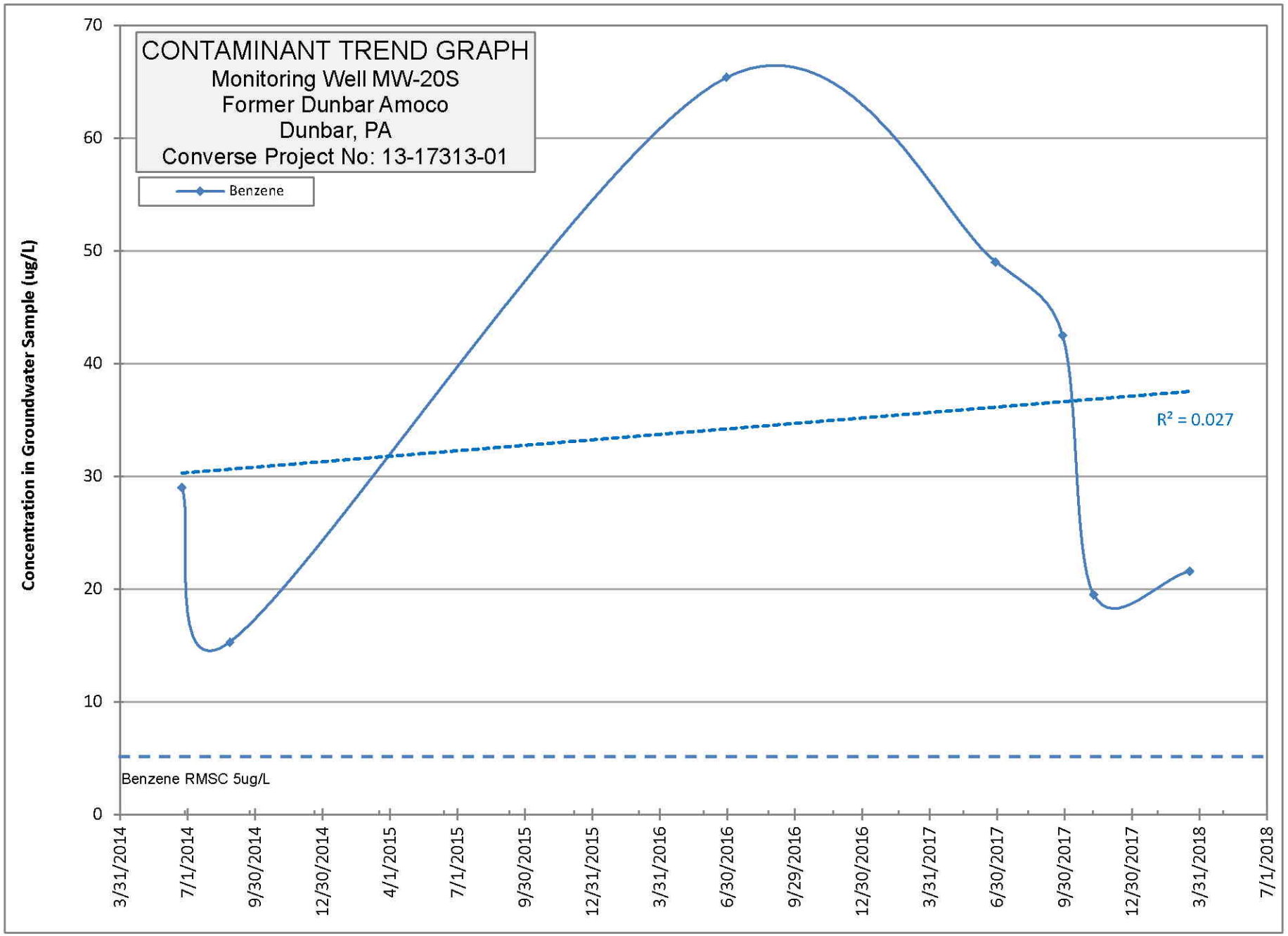

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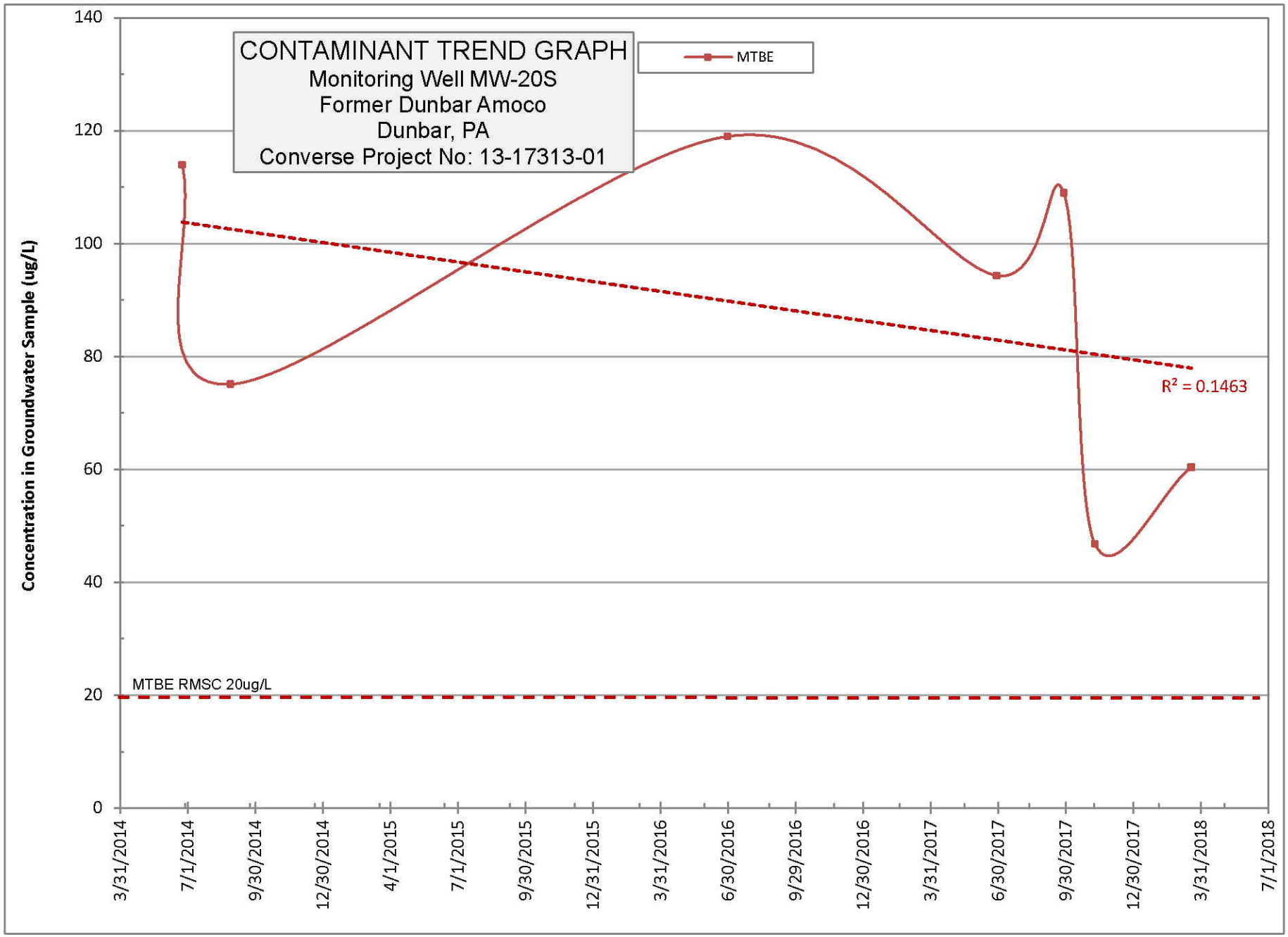

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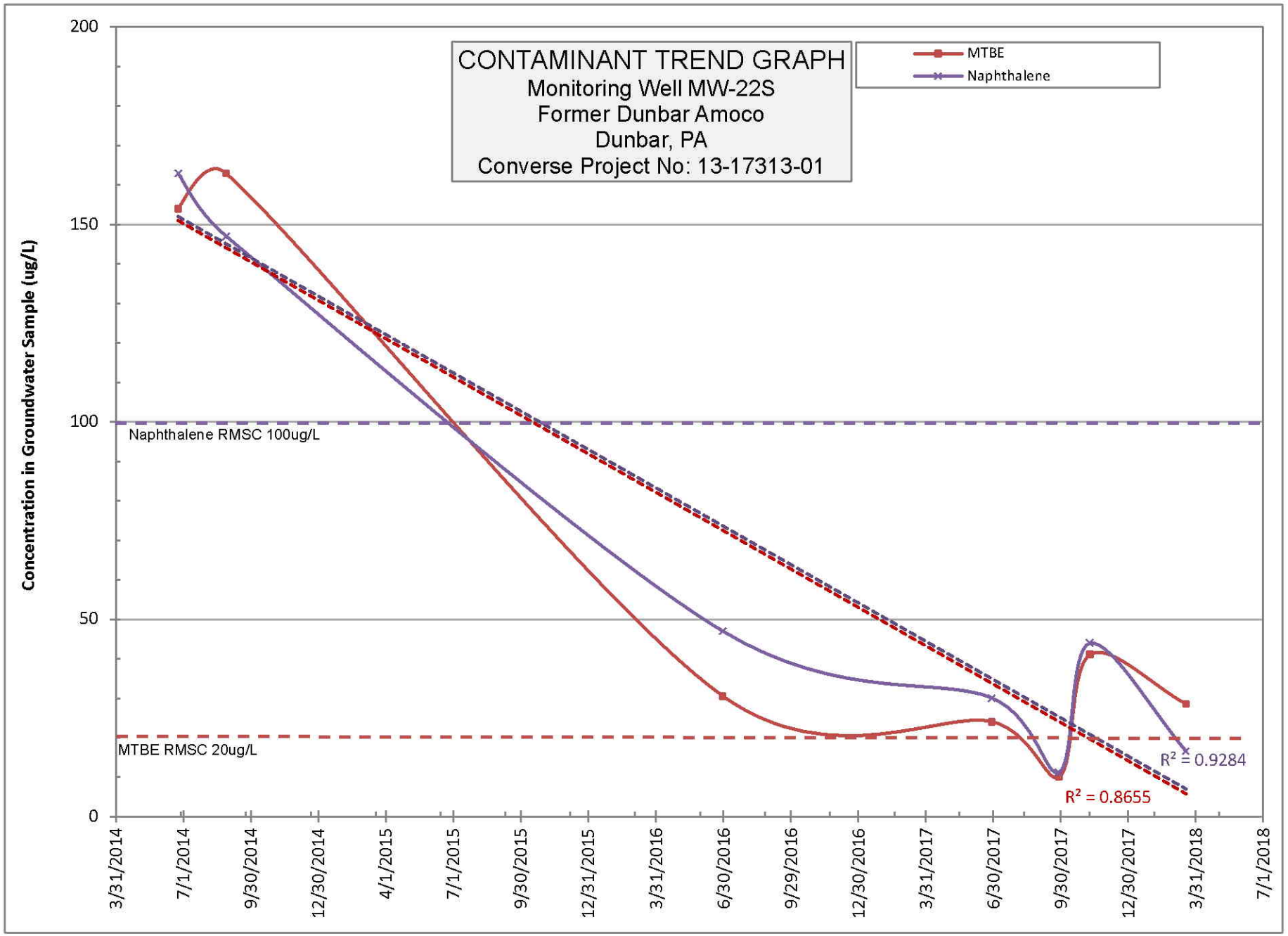

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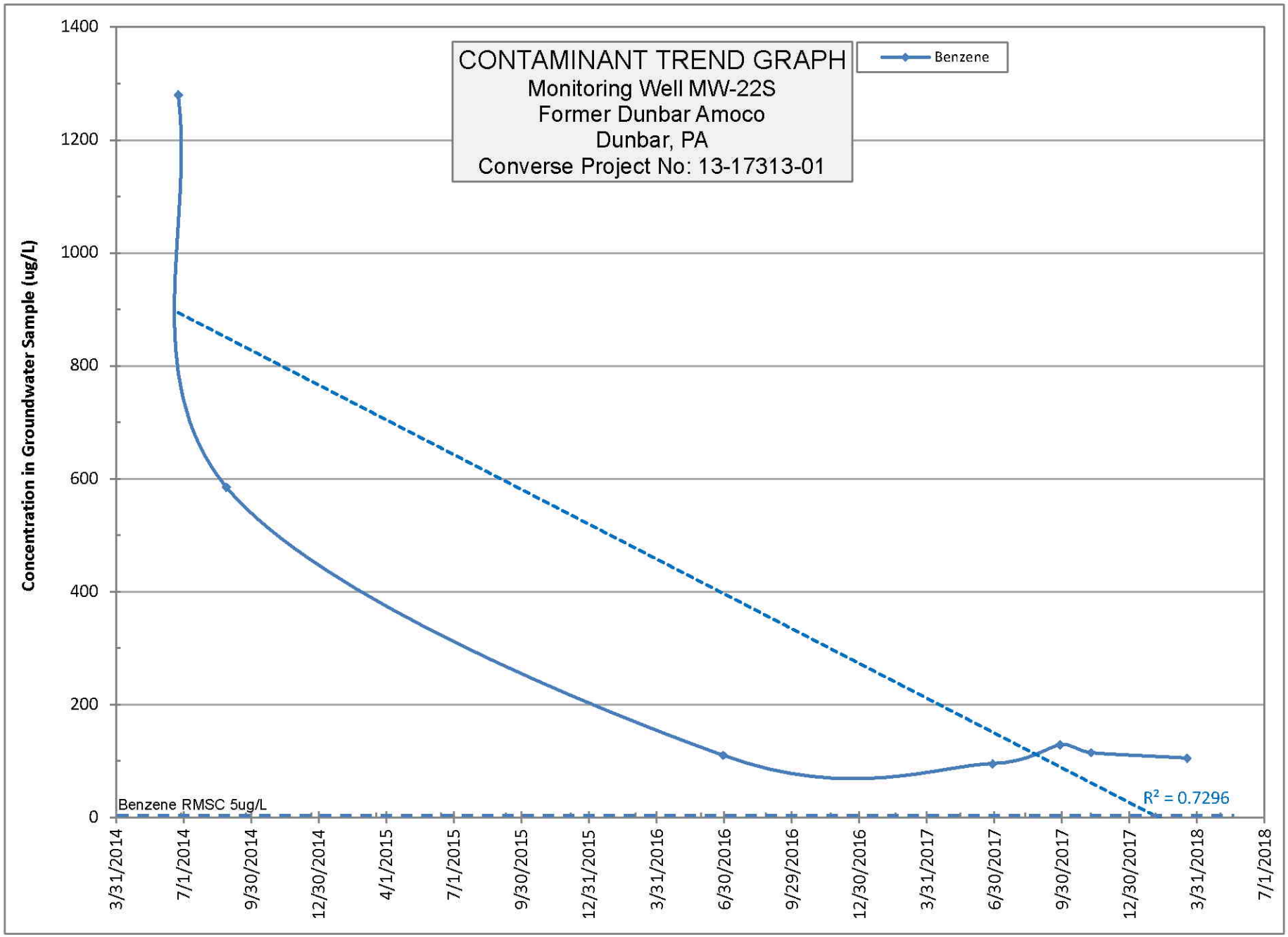

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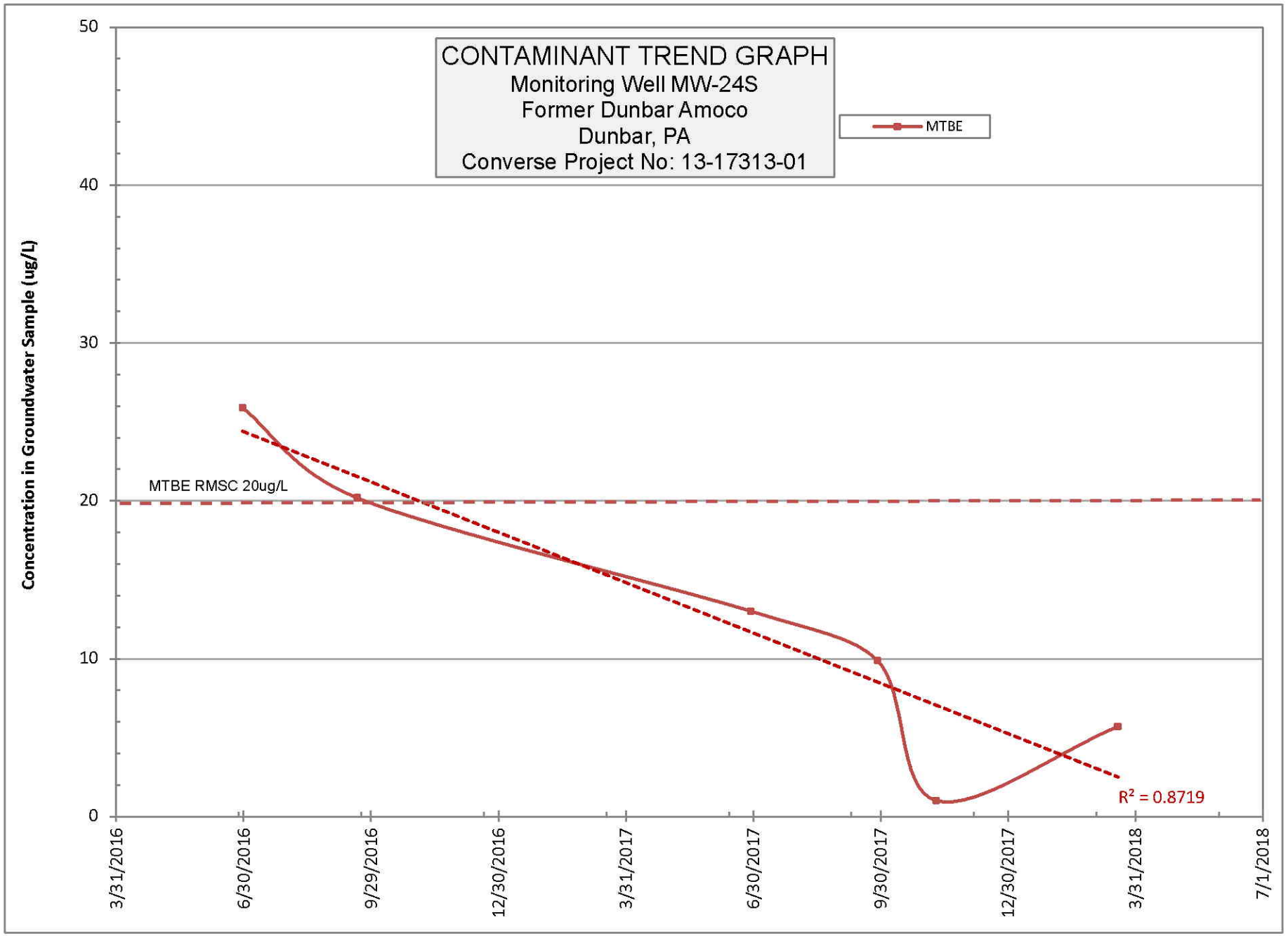

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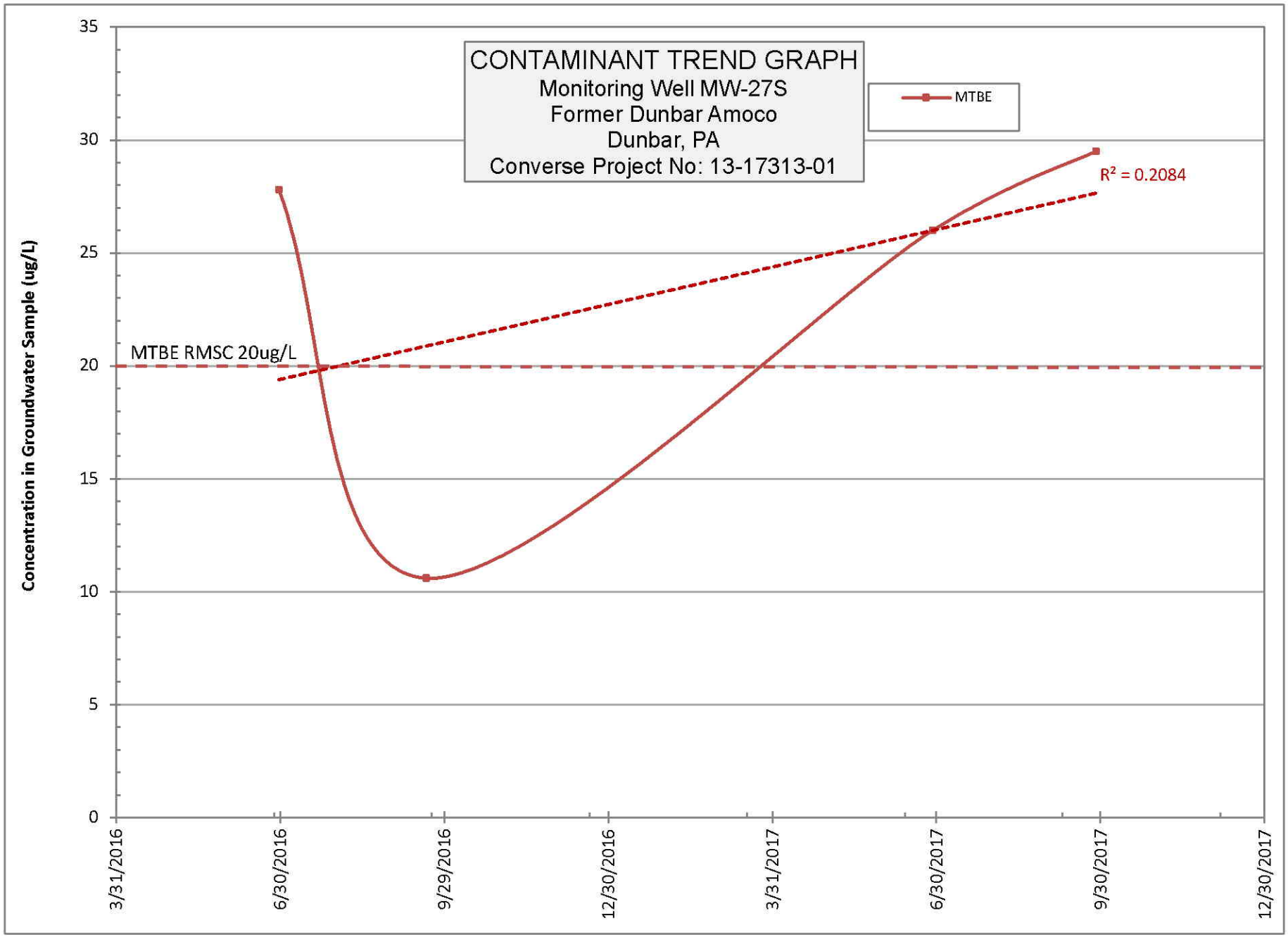

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APPENDIX D

2019 Ninth Avenue
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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennsdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684

State Certifications: MD 275, WV 364

FAIRWAY LABORATORIES
www.fairwaylaboratories.com

Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-3	8C20150-01	Water	Grab	03/19/18 16:15	03/20/18 16:15
MW-6	8C20150-02	Water	Grab	03/19/18 17:20	03/20/18 16:15
MW-7	8C20150-03	Water	Grab	03/19/18 16:17	03/20/18 16:15
MW-8	8C20150-04	Water	Grab	03/19/18 16:10	03/20/18 16:15
MW-10	8C20150-05	Water	Grab	03/19/18 16:40	03/20/18 16:15
MW-10S	8C20150-06	Water	Grab	03/19/18 16:22	03/20/18 16:15
MW-12	8C20150-07	Water	Grab	03/19/18 11:12	03/20/18 16:15
MW-12S	8C20150-08	Water	Grab	03/19/18 11:10	03/20/18 16:15
MW-15S	8C20150-09	Water	Grab	03/19/18 15:17	03/20/18 16:15
MW-16	8C20150-10	Water	Grab	03/19/18 15:42	03/20/18 16:15
MW-18S	8C20150-11	Water	Grab	03/19/18 16:05	03/20/18 16:15
MW-19S	8C20150-12	Water	Grab	03/19/18 15:21	03/20/18 16:15
MW-20S	8C20150-13	Water	Grab	03/19/18 14:57	03/20/18 16:15
MW-22S	8C20150-14	Water	Grab	03/19/18 16:09	03/20/18 16:15
MW-23S	8C20150-15	Water	Grab	03/19/18 15:48	03/20/18 16:15
MW-24S	8C20150-16	Water	Grab	03/19/18 14:33	03/20/18 16:15
MW-25S	8C20150-17	Water	Grab	03/19/18 16:09	03/20/18 16:15
MW-26S	8C20150-18	Water	Grab	03/19/18 16:15	03/20/18 16:15
DUPLICATE	8C20150-19	Water	Grab	03/19/18 17:20	03/20/18 16:15
GAC	8C20150-20	Water	Grab	03/19/18 17:10	03/20/18 16:15
TRIP BLANK	8C20150-21	Water	Trip Blank	03/19/18 00:00	03/20/18 16:15
POND	8C20150-23	Water	Grab	03/19/18 14:05	03/20/18 16:15
MW-21S	8C20150-24	Water	Grab	03/19/18 14:53	03/20/18 16:15

Refer to receiving document. JS.

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

8C21050: TMBs removed per client request. (MF) This report replaces report issued 4/4/18. 040918 kjd

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FAIRWAY LABORATORIES
www.fairwaylaboratories.com

Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-3 **Date/Time Sampled:** 03/19/18 16:15

Laboratory Sample ID: 8C20150-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/21/18 21:43	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/21/18 21:43	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/21/18 21:43	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/21/18 21:43	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/21/18 21:43	EPA 8260B	bag	
Methyl tert-butyl ether	4.97		1.00	ug/l	03/21/18 21:43	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/21/18 21:43	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*70-130*		*03/21/18 21:43*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*		*03/21/18 21:43*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*101 %*	*70-130*		*03/21/18 21:43*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: **MW-6** **Date/Time Sampled:** 03/19/18 17:20

Laboratory Sample ID: **8C20150-02 (Water/Grab)**

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/21/18 22:12	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/21/18 22:12	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/21/18 22:12	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/21/18 22:12	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/21/18 22:12	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/21/18 22:12	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/21/18 22:12	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.3 %*	*70-130*		*03/21/18 22:12*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*		*03/21/18 22:12*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*101 %*	*70-130*		*03/21/18 22:12*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-7 **Date/Time Sampled:** 03/19/18 16:17

Laboratory Sample ID: 8C20150-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/21/18 22:42	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/21/18 22:42	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/21/18 22:42	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/21/18 22:42	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/21/18 22:42	EPA 8260B	bag	
Methyl tert-butyl ether	6.59		1.00	ug/l	03/21/18 22:42	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/21/18 22:42	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*70-130*		*03/21/18 22:42*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*94.2 %*	*70-130*		*03/21/18 22:42*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*99.2 %*	*70-130*		*03/21/18 22:42*	*EPA 8260B*	bag	

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Converse		Project:	DUNBAR FORMER AMOCO
2738 West College Avenue		Project Number:	13-17313-01-0003 **Reported:**
State College PA, 16801		Collector:	CLIENT 04/09/18 09:51
Project Manager:	Mary Feerrar	Number of Containers:	47

Client Sample ID: **MW-8** **Date/Time Sampled:** 03/19/18 16:10

Laboratory Sample ID: **8C20150-04 (Water/Grab)**

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/21/18 23:13	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/21/18 23:13	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/21/18 23:13	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/21/18 23:13	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/21/18 23:13	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/21/18 23:13	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/21/18 23:13	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*70-130*		*03/21/18 23:13*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*		*03/21/18 23:13*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*101 %*	*70-130*		*03/21/18 23:13*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-10 **Date/Time Sampled:** 03/19/18 16:40

Laboratory Sample ID: 8C20150-05 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	2.45		1.00	ug/l	03/21/18 23:43	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/21/18 23:43	EPA 8260B	bag	
Ethylbenzene	2.09		1.00	ug/l	03/21/18 23:43	EPA 8260B	bag	
Xylenes (total)	4.63		2.00	ug/l	03/21/18 23:43	EPA 8260B	bag	
Isopropylbenzene	1.01		1.00	ug/l	03/21/18 23:43	EPA 8260B	bag	
Methyl tert-butyl ether	3.96		1.00	ug/l	03/21/18 23:43	EPA 8260B	bag	
Naphthalene	2.55		1.00	ug/l	03/21/18 23:43	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*70-130*		*03/21/18 23:43*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*	*70-130*		*03/21/18 23:43*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*102 %*	*70-130*		*03/21/18 23:43*	*EPA 8260B*	bag	

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2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-10S **Date/Time Sampled:** 03/19/18 16:22

Laboratory Sample ID: 8C20150-06 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								Q
Benzene	49.9		10.0	ug/l	03/24/18 02:08	EPA 8260B	bag	
Toluene	<10.0		10.0	ug/l	03/24/18 02:08	EPA 8260B	bag	
Ethylbenzene	190		10.0	ug/l	03/24/18 02:08	EPA 8260B	bag	
Xylenes (total)	27.8		20.0	ug/l	03/24/18 02:08	EPA 8260B	bag	
Isopropylbenzene	45.8		10.0	ug/l	03/24/18 02:08	EPA 8260B	bag	
Methyl tert-butyl ether	<10.0		10.0	ug/l	03/24/18 02:08	EPA 8260B	bag	
Naphthalene	53.3		10.0	ug/l	03/24/18 02:08	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*70-130*		*03/24/18 02:08*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*70-130*		*03/24/18 02:08*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*99.6 %*	*70-130*		*03/24/18 02:08*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-12 **Date/Time Sampled:** 03/19/18 11:12

Laboratory Sample ID: 8C20150-07 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								Q
Benzene	85.6		10.0	ug/l	03/24/18 02:38	EPA 8260B	bag	
Toluene	<10.0		10.0	ug/l	03/24/18 02:38	EPA 8260B	bag	
Ethylbenzene	<10.0		10.0	ug/l	03/24/18 02:38	EPA 8260B	bag	
Xylenes (total)	<20.0		20.0	ug/l	03/24/18 02:38	EPA 8260B	bag	
Isopropylbenzene	<10.0		10.0	ug/l	03/24/18 02:38	EPA 8260B	bag	
Methyl tert-butyl ether	102		10.0	ug/l	03/24/18 02:38	EPA 8260B	bag	
Naphthalene	<10.0		10.0	ug/l	03/24/18 02:38	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*70-130*		*03/24/18 02:38*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*		*03/24/18 02:38*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*99.3 %*	*70-130*		*03/24/18 02:38*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: **MW-12S** **Date/Time Sampled:** 03/19/18 11:10

Laboratory Sample ID: **8C20150-08 (Water/Grab)**

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								Q
Benzene	494		10.0	ug/l	03/24/18 03:08	EPA 8260B	bag	
Toluene	41.1		10.0	ug/l	03/24/18 03:08	EPA 8260B	bag	
Ethylbenzene	287		10.0	ug/l	03/24/18 03:08	EPA 8260B	bag	
Xylenes (total)	142		20.0	ug/l	03/24/18 03:08	EPA 8260B	bag	
Isopropylbenzene	59.4		10.0	ug/l	03/24/18 03:08	EPA 8260B	bag	
Methyl tert-butyl ether	142		10.0	ug/l	03/24/18 03:08	EPA 8260B	bag	
Naphthalene	171		10.0	ug/l	03/24/18 03:08	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*70-130*		*03/24/18 03:08*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*	*70-130*		*03/24/18 03:08*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*102 %*	*70-130*		*03/24/18 03:08*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-15S **Date/Time Sampled:** 03/19/18 15:17

Laboratory Sample ID: 8C20150-09 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	13.9		1.00	ug/l	03/30/18 12:32	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/30/18 12:32	EPA 8260B	bag	
Ethylbenzene	1.41		1.00	ug/l	03/30/18 12:32	EPA 8260B	bag	
Xylenes (total)	3.42		2.00	ug/l	03/30/18 12:32	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/30/18 12:32	EPA 8260B	bag	
Methyl tert-butyl ether	3.68		1.00	ug/l	03/30/18 12:32	EPA 8260B	bag	
Naphthalene	2.15		1.00	ug/l	03/30/18 12:32	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*70-130*		*03/30/18 12:32*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*		*03/30/18 12:32*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*99.6 %*	*70-130*		*03/30/18 12:32*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-16 **Date/Time Sampled:** 03/19/18 15:42

Laboratory Sample ID: 8C20150-10 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	1.78		1.00	ug/l	03/22/18 00:12	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 00:12	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 00:12	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 00:12	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 00:12	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/22/18 00:12	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 00:12	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.1 %*	*70-130*		*03/22/18 00:12*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*93.3 %*	*70-130*		*03/22/18 00:12*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*101 %*	*70-130*		*03/22/18 00:12*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-18S **Date/Time Sampled:** 03/19/18 16:05

Laboratory Sample ID: 8C20150-11 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								Q
Benzene	280		50.0	ug/l	03/21/18 23:07	EPA 8260B	bag	
Toluene	<50.0		50.0	ug/l	03/21/18 23:07	EPA 8260B	bag	
Ethylbenzene	462		50.0	ug/l	03/21/18 23:07	EPA 8260B	bag	
Xylenes (total)	699		100	ug/l	03/21/18 23:07	EPA 8260B	bag	
Isopropylbenzene	79.5		50.0	ug/l	03/21/18 23:07	EPA 8260B	bag	
Methyl tert-butyl ether	67.0		50.0	ug/l	03/21/18 23:07	EPA 8260B	bag	
Naphthalene	108		50.0	ug/l	03/21/18 23:07	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*95.5 %*	*70-130*		*03/21/18 23:07*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*95.8 %*	*70-130*		*03/21/18 23:07*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*94.2 %*	*70-130*		*03/21/18 23:07*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-19S **Date/Time Sampled:** 03/19/18 15:21

Laboratory Sample ID: 8C20150-12 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	6.13		1.00	ug/l	03/22/18 00:42	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 00:42	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 00:42	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 00:42	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 00:42	EPA 8260B	bag	
Methyl tert-butyl ether	108		5.00	ug/l	03/22/18 13:41	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 00:42	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*91.8 %*	*70-130*		*03/22/18 00:42*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*		*03/22/18 00:42*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*99.9 %*	*70-130*		*03/22/18 00:42*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-20S **Date/Time Sampled:** 03/19/18 14:57

Laboratory Sample ID: 8C20150-13 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	21.6		1.00	ug/l	03/22/18 01:42	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 01:42	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 01:42	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 01:42	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 01:42	EPA 8260B	bag	
Methyl tert-butyl ether	60.4		1.00	ug/l	03/22/18 01:42	EPA 8260B	bag	
Naphthalene	1.14		1.00	ug/l	03/22/18 01:42	EPA 8260B	bag	K
Surrogate: 4-Bromofluorobenzene		*93.1 %*	*70-130*		*03/22/18 01:42*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*		*03/22/18 01:42*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*102 %*	*70-130*		*03/22/18 01:42*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: **MW-22S** **Date/Time Sampled:** 03/19/18 16:09

Laboratory Sample ID: **8C20150-14 (Water/Grab)**

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								Q
Benzene	105		5.00	ug/l	03/29/18 23:33	EPA 8260B	bag	
Toluene	10.6		5.00	ug/l	03/29/18 23:33	EPA 8260B	bag	
Ethylbenzene	69.6		5.00	ug/l	03/29/18 23:33	EPA 8260B	bag	
Xylenes (total)	40.8		10.0	ug/l	03/29/18 23:33	EPA 8260B	bag	
Isopropylbenzene	19.4		5.00	ug/l	03/29/18 23:33	EPA 8260B	bag	
Methyl tert-butyl ether	28.5		5.00	ug/l	03/29/18 23:33	EPA 8260B	bag	
Naphthalene	16.6		5.00	ug/l	03/29/18 23:33	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*70-130*		*03/29/18 23:33*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*		*03/29/18 23:33*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*100 %*	*70-130*		*03/29/18 23:33*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-23S **Date/Time Sampled:** 03/19/18 15:48

Laboratory Sample ID: 8C20150-15 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/22/18 02:42	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 02:42	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 02:42	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 02:42	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 02:42	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/22/18 02:42	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 02:42	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*103 %*	*70-130*		*03/22/18 02:42*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*		*03/22/18 02:42*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*102 %*	*70-130*		*03/22/18 02:42*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-24S **Date/Time Sampled:** 03/19/18 14:33

Laboratory Sample ID: 8C20150-16 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/22/18 00:38	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 00:38	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 00:38	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 00:38	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 00:38	EPA 8260B	bag	
Methyl tert-butyl ether	5.69		1.00	ug/l	03/22/18 00:38	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 00:38	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*70-130*		*03/22/18 00:38*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*	*70-130*		*03/22/18 00:38*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*96.7 %*	*70-130*		*03/22/18 00:38*	*EPA 8260B*	bag	

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennsdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684

State Certifications: MD 275, WV 364

FAIRWAY LABORATORIES
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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-25S **Date/Time Sampled:** 03/19/18 16:09

Laboratory Sample ID: 8C20150-17 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/22/18 01:08	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 01:08	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 01:08	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 01:08	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 01:08	EPA 8260B	bag	
Methyl tert-butyl ether	15.0		1.00	ug/l	03/22/18 01:08	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 01:08	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*70-130*		*03/22/18 01:08*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*		*03/22/18 01:08*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*96.7 %*	*70-130*		*03/22/18 01:08*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: **MW-26S** **Date/Time Sampled:** 03/19/18 16:15

Laboratory Sample ID: **8C20150-18 (Water/Grab)**

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	1.41		1.00	ug/l	03/22/18 01:37	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 01:37	EPA 8260B	bag	
Ethylbenzene	1.27		1.00	ug/l	03/22/18 01:37	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 01:37	EPA 8260B	bag	
Isopropylbenzene	3.40		1.00	ug/l	03/22/18 01:37	EPA 8260B	bag	
Methyl tert-butyl ether	6.16		1.00	ug/l	03/22/18 01:37	EPA 8260B	bag	
Naphthalene	1.10		1.00	ug/l	03/22/18 01:37	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*70-130*		*03/22/18 01:37*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*		*03/22/18 01:37*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*98.5 %*	*70-130*		*03/22/18 01:37*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: **DUPLICATE** **Date/Time Sampled:** 03/19/18 17:20

Laboratory Sample ID: **8C20150-19 (Water/Grab)**

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/22/18 02:07	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 02:07	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 02:07	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 02:07	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 02:07	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/22/18 02:07	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 02:07	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*70-130*		*03/22/18 02:07*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*		*03/22/18 02:07*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*97.5 %*	*70-130*		*03/22/18 02:07*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: GAC **Date/Time Sampled:** 03/19/18 17:10

Laboratory Sample ID: 8C20150-20 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/22/18 02:38	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 02:38	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 02:38	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 02:38	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 02:38	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/22/18 02:38	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 02:38	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.1 %*	*70-130*		*03/22/18 02:38*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*		*03/22/18 02:38*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*97.0 %*	*70-130*		*03/22/18 02:38*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: **TRIP BLANK** **Date/Time Sampled:** 03/19/18 00:00

Laboratory Sample ID: **8C20150-21 (Water/Trip Blank)**

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/30/18 00:03	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/30/18 00:03	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/30/18 00:03	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/30/18 00:03	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/30/18 00:03	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/30/18 00:03	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/30/18 00:03	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*101 %*	*70-130*		*03/30/18 00:03*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*		*03/30/18 00:03*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*89.0 %*	*70-130*		*03/30/18 00:03*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: POND **Date/Time Sampled:** 03/19/18 14:05

Laboratory Sample ID: 8C20150-23 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								
Benzene	<1.00		1.00	ug/l	03/22/18 03:08	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	03/22/18 03:08	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	03/22/18 03:08	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	03/22/18 03:08	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	03/22/18 03:08	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/22/18 03:08	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	03/22/18 03:08	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*70-130*		*03/22/18 03:08*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*99.7 %*	*70-130*		*03/22/18 03:08*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*96.9 %*	*70-130*		*03/22/18 03:08*	*EPA 8260B*	bag	

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

Client Sample ID: MW-21S **Date/Time Sampled:** 03/19/18 14:53

Laboratory Sample ID: 8C20150-24 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Volatile Organic Compounds by EPA Method 8260B/Prep Method 5030								Q
Benzene	5.15		5.00	ug/l	03/23/18 15:22	EPA 8260B	bag	
Toluene	<5.00		5.00	ug/l	03/23/18 15:22	EPA 8260B	bag	
Ethylbenzene	<5.00		5.00	ug/l	03/23/18 15:22	EPA 8260B	bag	
Xylenes (total)	<10.0		10.0	ug/l	03/23/18 15:22	EPA 8260B	bag	
Isopropylbenzene	<5.00		5.00	ug/l	03/23/18 15:22	EPA 8260B	bag	
Methyl tert-butyl ether	14.7		5.00	ug/l	03/23/18 15:22	EPA 8260B	bag	
Naphthalene	<5.00		5.00	ug/l	03/23/18 15:22	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		*94.9 %*	*70-130*		*03/23/18 15:22*	*EPA 8260B*	bag	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*		*03/23/18 15:22*	*EPA 8260B*	bag	
Surrogate: Fluorobenzene		*89.6 %*	*70-130*		*03/23/18 15:22*	*EPA 8260B*	bag	

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Converse		Project:	DUNBAR FORMER AMOCO
2738 West College Avenue		Project Number:	13-17313-01-0003 **Reported:**
State College PA, 16801		Collector:	CLIENT 04/09/18 09:51
Project Manager:	Mary Feerrar	Number of Containers:	47

Notes

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.

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Converse		Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue		Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801		Collector:	CLIENT	04/09/18 09:51
Project Manager:	Mary Feerrar	Number of Containers:	47	

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.
*	P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.
*	G indicates analysis performed by Fairway Laboratories, Inc. at the Greensburg location PaDEP: 65-00392. This location is PaDEP Chapter 252 certified.
<	Represents "less than" - indicates that the result was less than the reporting limit.
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.

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Converse	Project:	DUNBAR FORMER AMOCO	
2738 West College Avenue	Project Number:	13-17313-01-0003	**Reported:**
State College PA, 16801	Collector:	CLIENT	04/09/18 09:51
Project Manager: Mary Feerrar	Number of Containers:	47	

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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8C20150
1 of 3

SAMPLING, CHAIN OF CUSTODY AND ANALYSES RECORD FOR SOIL, GROUNDWATER AND AIR MONITORING PA

SAMPLING PLACE Dunbar former Amoco
OWNER
ADDRESS 1809 University Drive - Dunbar - PA
PROJECT NAME Quarterly Sampling

CC FIELD REP.
DATE 3-19-2018
WEATHER 40° - clear
PROJECT NO. 13-17313-01-0003
ATTENTION Mary Feerar

FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
2738 West College Avenue
State College, Pennsylvania 16801
814-234-3223
Fax 814-234-3255

	STATION NO. OR SAMPLE IDENT.	TIME	DEPTH TO WATER (FEET) DATUM	PURGING METHOD / SAMPLE DEPTH (FT.) INTERVAL	AMOUNT PURGED (GALS)	SAMPLING METHOD	CONTAINER DESCRIPTION: 2-40ml HCl	pH	SPECIFIC CONDUCTANCE (μ mohs/cm.)	TEMP. °C	ANALYSIS REQUEST / COMMENTS
1	MW-3	4:15	15.14	pump	7 gal.	Grab.	X	6.5	462	14.8	PADEP Unleaded Gas Short list
2	MW-6	5:20	28.26	pump	35		X	7.3	232	14.0	
3	MW-7	4:17	44.18	bail	8		X	6.1	495	15.2	
4	MW-8	4:10	37.03	bail	9.5		X	6.2	451	15.0	
5	MW-10	4:40	33.48	pump	4		X	7.5	460	15.2	
6	MW-10S	4:22	13.58	bail	7.5		X	6.9	334	15.0	
7	MW-12	11:12	37.13	bail	6.75		X	6.6	521	14.6	
8	MW-12S	11:10	29.88	bail	.75		X	8.1	421	15.3	
9	MW-15S	3:17	12.61	pump	4		X	7.1	285	16.3	
10	MW-16	3:42	37.32	pump	5		X	8.5	924	15.2	
11	MW-18S	4:05	13.78	pump	6.5		X	7.2	561	15.5	
12	MW-19S	3:21	12.87	bail	9		X	7.2	226	13.6	
13	MW-20S	2:57	12.88	bail	9		X	7.0	302	14.3	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
Mary Feerar	3/20/18	8:35	
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
	3/20/18	1615	3-20-18 1615
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)

RECEIVING LABORATORY
3/20/18 ADDRESS
1155
DATE RECEIVED TIME
ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED
ACCEPTED BY

1/92

DISTRIBUTION: *WHITE*—WITH SHIPMENT TO LAB. *CANARY*—CONVERSE. *PINK*—RETAINED BY FIELD REP.

#2
8C20150
2 of 3

SAMPLING, CHAIN OF CUSTODY AND ANALYSES RECORD FOR SOIL, GROUNDWATER AND AIR MONITORING PA

SAMPLING PLACE Dunbar- Former Amoco
OWNER
ADDRESS 1809 University Drive, Dunbar, PA
PROJECT NAME Quarterly Sampling

CC FIELD REP.
DATE 3-19-2018
WEATHER
PROJECT NO. B-1331-01-0003
ATTENTION Mary Feerrar

FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
2738 West College Avenue
State College, Pennsylvania 16801
814-234-3223
Fax 814-234-3255

	STATION NO. OR SAMPLE IDENT.	TIME	DEPTH TO WATER (FEET) DATUM	PURGING METHOD / SAMPLE DEPTH (FT.) INTERVAL	AMOUNT PURGED (GALS)	SAMPLING METHOD	CONTAINER DESCRIPTION (40-ml HCl)	pH	SPECIFIC CONDUCTANCE (μ mohs/cm.)	TEMP. °C	ANALYSIS REQUEST / COMMENTS
14	MW-22S	4:09	14.53	bail	7.5	Grab	X	7.0	358	14.4	PADEP Unleaded Gas Short List
15	MW-23S	3:48	13.38	bail	8.5		X	7.0	290	14.0	
16	MW-24S	2:33	11.62	bail	~~7~~ 9.0		X	7.8	212	12.8	
17	MW-25S	4:09	14.53	bail	7.5		X	7.0	358	14.4	
18	MW-26S	4:15	11.25	pump	7.11		X	7.1	495	16.9	
~~19~~	~~MW-27S~~										
20	Duplicate MW-6	5:20	26.26	pump	35		X	7.3	232	14.0	
21	GAC	5:10				↓	X				↓
	Trip blank	2/19/18	6:30				X				

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
Mary Feerrar	3/20/18	8:35	
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
	3/20/18	1615	3-20-18 1615
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)

RECEIVING LABORATORY
3/20/18 1150 ADDRESS
DATE RECEIVED TIME
ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED
ACCEPTED BY

1/92

DISTRIBUTION: *WHITE*—WITH SHIPMENT TO LAB. *CANARY*—CONVERSE. *PINK*—RETAINED BY FIELD REP.

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Chain of Custody Receiving Document

Recciver: AI Page 3 of 3

Date/Time of this check: 3-20-18 1819 Client: Converse Lab # 8C20150

Received on ICE? Y ☐ * **Sample Temperature when delivered to the Lab:** 2.9 **Acceptable?** Y ☐ * **or In cool down process?** ☐ *
(Not applicable for WV compliance)

Custody Seals? NO Intact? NA

COC/Labels on bottles agree? No ☐ * Correct containers for all the analysis requested? Y ☐ * Matrix: WATER

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 ☐ *	Properly Preserved ☐ *	Bacti	☐ * Internal notification completed for deviations.
1							2HCl				
↓ 20							↓				
TB							1HCl				
* MW-18							2HCl				1116
* POND							↓				1405
~~* MW-4S~~							1HCl				~~1453~~
* MW-21S							2↓				1403

*** DEVIATION PRESENT:**
- ☹ **No Ice** ( )
- ☹ **Not at Proper Temperature** ( )
- ☹ **Wrong Container** ( )
- ☹ **Missing Information:** XX

CLIENT CALLED: YES ( ) EMAIL
By Whom: CINDY **Date:** 3/21/18

CLIENT RESPONSE:
- **Proceed with analysis; qualify data** ( )
- **Will Resample** ( )
- **Provided Information** (X)
- **No Response; Proceed and qualified** ( )

Client Contact: MARY **Date:** 3/21/18

* Comments: * Not listed on COC. Times & date from vials. 25S - COC READS 4:09 VIALS READ 2:3' * 25-S - TIME ON COC, ADD MW-21S & POND. WILL GET BACK TO ME ABOT MW-18

* Please analyze the sample MW-18 with the time of 4:05 and discard the other sample marked MW-18.

APPENDIX E

Converse Consultants
2738 West College Avenue
State College, PA 16801
814-234-3223

BORING NUMBER R-1

CLIENT ICF International
PROJECT NAME Dunbar Amoco
PROJECT NUMBER 13-17313-00
PROJECT LOCATION 1809 University Drive, Connellsville, PA 15431
DATE STARTED 3/6/18 **COMPLETED** 3/6/18
GROUND ELEVATION 1242 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Armstrong
GROUND WATER LEVELS:
DRILLING METHOD Air Rotary
AT TIME OF DRILLING 22.00 ft / Elev 1220.00 ft Driller estimate
LOGGED BY phc **CHECKED BY** MF
AT END OF DRILLING ---
NOTES
1hrs AFTER DRILLING 21.75 ft / Elev 1220.25 ft

DEPTH (ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
0		Casing Top Elev: 1 (ft)
1.0 / 1241.0	**ASPHALT**	
	FILL	
6.0 / 1236.0	**SHALE** Brown	
	...Gray	
	...Light Gray	
30.0 / 1212.0	Bottom of borehole at 30.0 feet.	

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 4/19/18 11:55 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DUNBAR GEOTECH.GPJ

Converse Consultants
2738 West College Avenue
State College, PA 16801
814-234-3223

BORING NUMBER R-2

CLIENT ICF International
PROJECT NAME Dunbar Amoco
PROJECT NUMBER 13-17313-00
PROJECT LOCATION 1809 University Drive, Connellsville, PA 15431
DATE STARTED 3/6/18 **COMPLETED** 3/6/18
GROUND ELEVATION 1239 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Armstrong
GROUND WATER LEVELS:
DRILLING METHOD Air Rotary
AT TIME OF DRILLING 26.00 ft / Elev 1213.00 ft Driller estimate
LOGGED BY phc **CHECKED BY** MF
AT END OF DRILLING ---
NOTES
3hrs AFTER DRILLING 14.70 ft / Elev 1224.30 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Top Elev: 1 (ft)
					1.0 **ASPHALT** 1238.0	
					FILL	
5						
					6.0 1233.0	
					SHALE, Brown	
10						
					... Black	
15					▼	
20						
					... Dark Gray	
					... Light Gray	
25					▽	
30					31.0 1208.0	

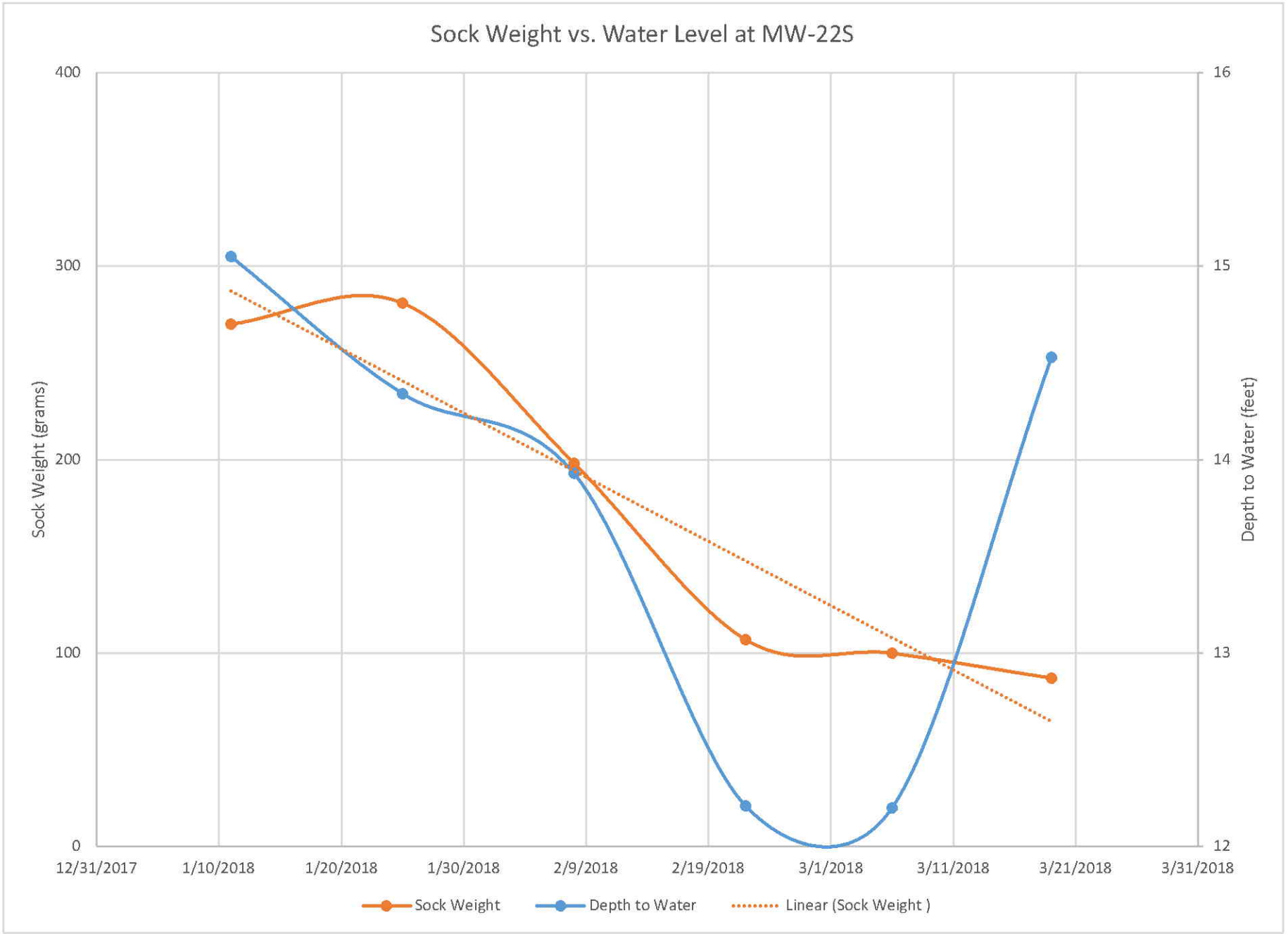
Bottom of borehole at 31.0 feet.

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 4/19/18 11:55 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DUNBAR GEOTECH.GPJ

APPENDIX F

Sock Weight vs. Water Level at MW-12S
Sock Weight (grams)
Depth to Water (feet)
500
400
300
200
100
0
23
22
21
20
19
18
12/31/2017
1/10/2018
1/20/2018
1/30/2018
2/9/2018
2/19/2018
3/1/2018
3/11/2018
3/21/2018
3/31/2018
Sock Weight
Depth to Water
Linear (Sock Weight)

Sock Weight vs. Water Level at MW-18S
Sock Weight (grams)
Depth to Water (feet)
600
500
400
300
200
100
0
15
14
13
12
11
12/31/2017
1/10/2018
1/20/2018
1/30/2018
2/9/2018
2/19/2018
3/1/2018
3/11/2018
3/21/2018
3/31/2018
Sock Weight
Depth to Water
Linear (Sock Weight)


Sock Weight vs. Water Level at MW-22S
Sock Weight (grams)
Depth to Water (feet)
400
300
200
100
0
16
15
14
13
12
12/31/2017
1/10/2018
1/20/2018
1/30/2018
2/9/2018
2/19/2018
3/1/2018
3/11/2018
3/21/2018
3/31/2018
Sock Weight
Depth to Water
Linear (Sock Weight)