



**HAND DELIVERED**

April 13, 2023

Kleinfelder Project No.: 20193011.001A

**Mr. Christopher Ralston**  
**Maryland Department of the Environment**  
1800 Washington Boulevard  
Baltimore, Maryland 21230

**SUBJECT:     ADDENDUM TO SAMPLING REDUCTION, WELL ABANDONMENT, AND ADDITIONAL  
CYCLING WORK PLAN**  
**Inactive Exxon Facility #28077**  
**14258 Jarrettsville Pike, Phoenix, Maryland**  
**MDE Case No. 2006-0303-BA2**

Dear Mr. Ralston:

Kleinfelder Inc. (Kleinfelder), on behalf of ExxonMobil Environmental & Property Solutions (ExxonMobil), submitted the *Sampling Reduction, Well Abandonment, and Additional Cycling Work Plan* (Workplan) to the Maryland Department of the Environment (MDE) Oil Control Program for Inactive Exxon Facility #28077 (Case Number 2006-0303-BA2) dated February 27, 2023. On March 29, 2023, representatives from the MDE, ExxonMobil and Kleinfelder met to review the Workplan and to conduct the annual Consent Order meeting. This addendum is provided to address MDE's requests for additional materials and information as discussed during the March 29 meeting.

**Attachment 1 - Drawings**

Three D-size copies of each of Figure 2 from the *Recovery Well Cycling Report of Results* (Report of Results) dated January 24, 2023, and each of the Figures from the Workplan dated February 27, 2023 are provided for review. Note that Private Supply Wells and all property addresses are shown on Figures 1 and 2 from the Report of Results, and Figures 1 and 4 from the Workplan. Private supply well locations and property addresses will be included on all figures in future submittals.

**Attachment 2 - Current and Proposed MW Activity Table**

An expanded table presenting the Current and Proposed Monitoring Well Activity, including additional background information consistent with prior monitoring well activity proposals, is included as Attachment 2. In addition to the hard copy, this table is also provided to the MDE as an editable electronic version to facilitate MDE's review and use in the Workplan response, using the columns labeled "MDE Approved Monitoring Activity" and "MDE Rationale (if not approved)"

**Proposed Groundwater Sampling Interval Change for MW-138D**

As presented in the Workplan, monitoring well MW-138D is sampled quarterly with 10 hydrasleeve depths/intervals. Data from the historical discrete depth sampling for MW-138D and other wells with discrete depth sampling data from across the project area over the last 17 years indicates no significant, persistent concentration variability with depth. Additionally, the most recent discrete depth sample

results from December 28, 2022 indicate a maximum methyl tert-butyl ether (MTBE) concentration across all intervals of 0.62J. Therefore, the number of hydrasleeve intervals for MW-138D is proposed to be reduced from 10 intervals to 3 intervals - shallow (115 to 120 feet), intermediate (230 to 235 feet), and deep (350 to 355 feet).

### **Proposed Private Supply Well Sampling**

As presented in the Workplan, private supply well sampling is proposed to be reduced from 28 properties to 3 properties. Six of the properties (14223 Robcaste Road, 14258 Jarrettsville Pike, 14301 Jarrettsville Pike, 14315 Jarrettsville Pike, 3508 Hampshire Glen Court, and 3605A Southside Avenue) which are proposed to discontinue sampling have monitoring wells on the property which are proposed for continued sampling per the Workplan. The presence of actively sampled monitoring wells on a property proposed for discontinuation of supply well sampling is a deviation from the third criteria in the 2018 Order of Resolution Flowchart 3, however these supply wells are proposed for discontinuation of sampling because of the extensive years of data indicating non-detect or low-level (below MDE standard) detections of gasoline constituents.

### **Limitations**

Kleinfelder performed the services for this project under the Enabling Agreement with Procurement, a division of ExxonMobil Global Services Company (signed on November 28, 2012). Kleinfelder states that the services provided are consistent with professional of care defined as that level of services provided by similar professionals under like circumstances. This report is based on the regulatory standards in effect on the date of the report. It has been produced for the primary benefit of ExxonMobil Global Services Company and its affiliates.

### **Closing**

Thank you for your time on March 29, 2023 to discuss the Workplan and project status. Please contact the undersigned with any questions or requests for additional information.

Sincerely,

### **KLEINFELDER**



Mark J. Schaaf, CPG  
Project Director



Leslie D. Steele, PE  
Principal Engineer

cc: Ms. Ellen Jackson – MDE Oil Control Program  
Ms. Susan Bull – MDE Oil Control Program  
Stephanie Cobb Williams, Esq. – Office of the Attorney General  
Mr. John Lee – ExxonMobil (project file)  
Carlos Bollar, Esq. – Archer & Greiner

### **ATTACHMENTS**

- 1 Figures
- 2 Current and Proposed MW Activity (Expanded Table)

**ATTACHMENT 1**  
**FIGURES**

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PROJECT NO.	20193011
DRAWN:	10/11/2021
DRAWN BY:	R. Alvarez
CHECKED BY:	C. Low

**PHASE 2 CYCLING ASSESSMENT**

INACTIVE EXXON FACILITY #28077  
14258 JARRETTSVILLE PIKE  
PHOENIX, MARYLAND  
BALTIMORE COUNTY

FIGURE  
**1**



**Legend**

**Current Activity**

- Monthly\*
- Quarterly
- ▲ Semi Annual
- Gauge Only
- ▼ Retain

\* = Monthly sampling during Phase 2 Cycling Assessment; thereafter reverts to MDE-approved frequency

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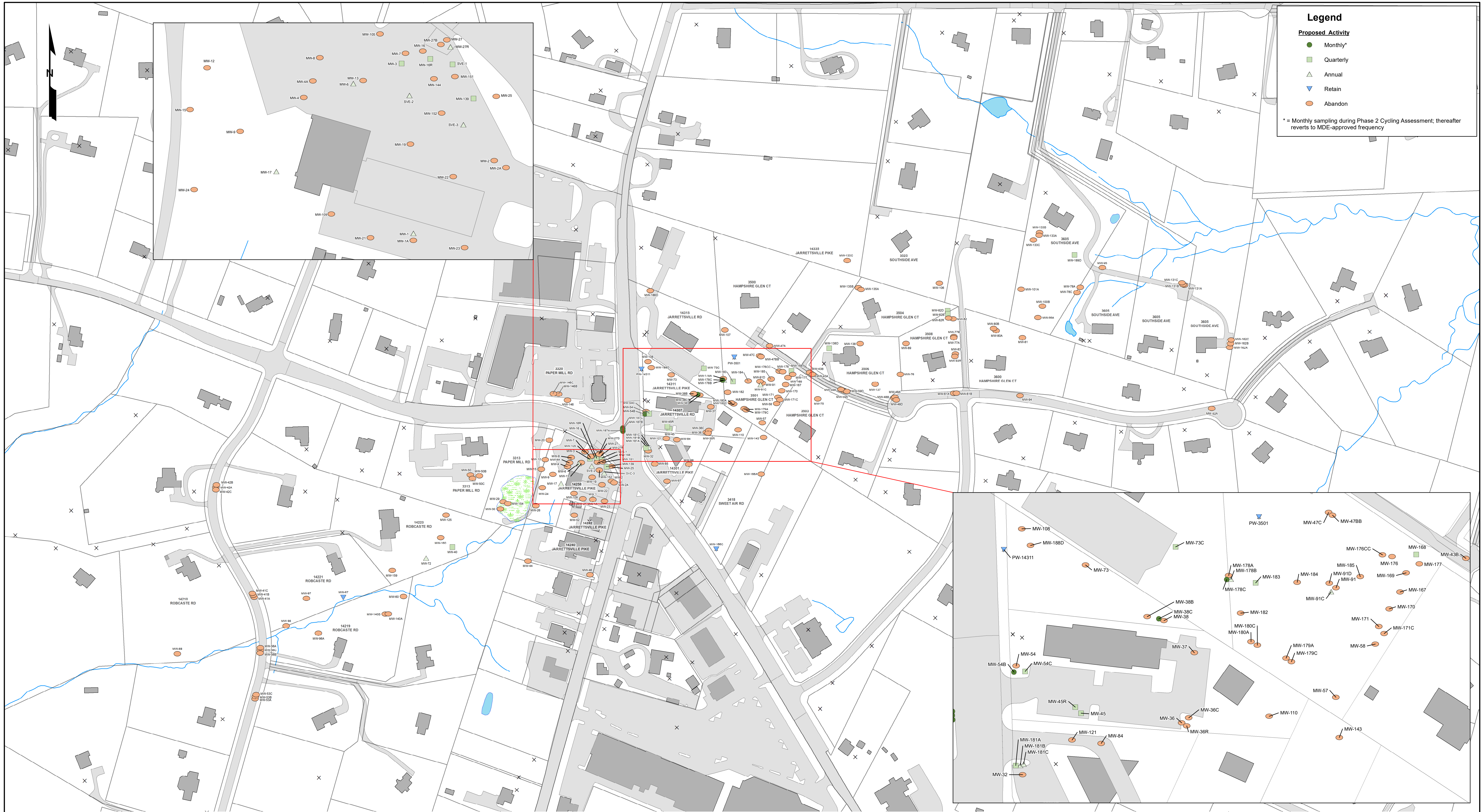
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PROJECT NO.	20193011
DRAWN:	2/21/2023
CHECKED BY:	
FILE NAME:	

**CURRENT WELL STATUS AND SAMPLING ACTIVITY**

INACTIVE EXXON FACILITY #28077  
14258 JARRETTVILLE PIKE  
PHOENIX, MARYLAND  
BALTIMORE COUNTY

FIGURE  
**2**



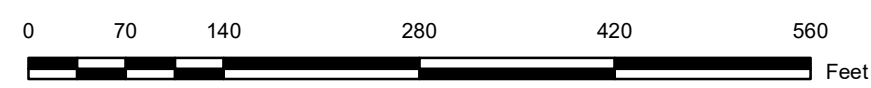
**Legend**

**Proposed Activity**

- Monthly\*
- Quarterly
- ▲ Annual
- ▼ Retain
- Abandon

\* = Monthly sampling during Phase 2 Cycling Assessment; thereafter reverts to MDE-approved frequency

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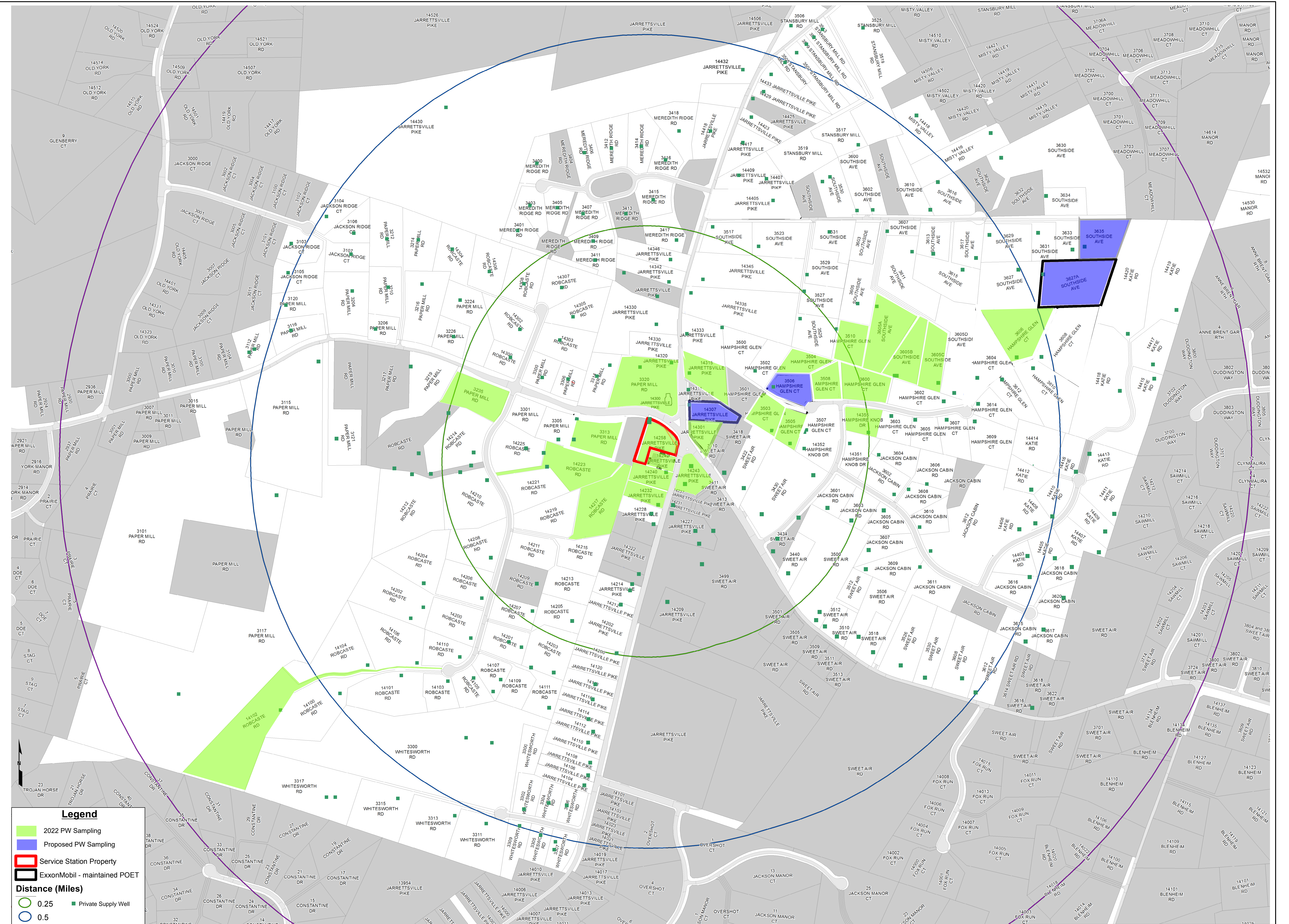


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PROJECT NO.	20193011
DRAWN:	2/21/2023
CHECKED BY:	
FILE NAME:	

**PROPOSED WELL STATUS AND SAMPLING ACTIVITY**

INACTIVE EXXON FACILITY #28077  
14258 JARRETTVILLE PIKE  
PHOENIX, MARYLAND  
BALTIMORE COUNTY



**Legend**

- 2022 PW Sampling
- Proposed PW Sampling
- Service Station Property
- ExxonMobil - maintained POET

**Distance (Miles)**

- 0.25
- 0.5
- 0.75
- 1.0

Private Supply Well

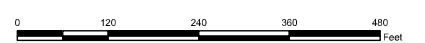


**Legend**

- ▲ Pre Cycling Assessment Recovery Activity
- ▲ Monitoring Only
- ✂ Abandoned Monitoring Well
- Private Supply Well
- Surface Water Sample
- Building Footprint
- ▭ Property Boundary (Approx.)
- ▭ Roads and Parking
- Retention Basin
- Stream
- Intermittent
- Water Body
- Well Regularly Above Action Level at end of 2022
- Current 4 Recovery Wells

NOTE: MW-189D location is approximate

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PROJECT NO.	20193011
DRAWN:	1/18/2023
DRAWN BY:	R. Alvarez
CHECKED BY:	L. Steele

**MONITORING WELLS REGULARLY ABOVE ACTION LEVEL AT 2022 CYCLING ASSESSMENT CONCLUSION**

INACTIVE EXXON FACILITY #28077  
14258 JARRETTVILLE PIKE  
PHOENIX, MARYLAND  
BALTIMORE COUNTY



**ATTACHMENT 2**  
**CURRENT AND PROPOSED MW ACTIVITY (EXPANDED TABLE)**

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Attachment 2

Current and Proposed MW Activity (Analytical Data through December 31, 2022)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well ID	Address	Date of Maximum MtBE Detection	Maximum MtBE Detection since 2006 (µg/L)	Last Sampling Date	Last MtBE Result	Date of Last MtBE Detection Above Action Level	Current Monitoring Activity	Proposed Monitoring Activity	Rationale	MDE Approved Monitoring Activity	MDE Rationale (if not approved)
MW- 1	Station	2/24/2006	779,000	11/2/2022	ND	8/22/2008	Semi-Annual	Annual	Continued monitoring in SE portion of former Station; below standards >3 yrs (2/25/2019)		
MW- 1A [R]	Station	3/16/2006	45,400	10/17/2022	ND	9/28/2016	Quarterly	Abandon	Below standards for >6 yrs (9/28/2016)		
MW- 2	Station	2/18/2006	336,000	11/2/2022	ND	12/13/2012	Semi-Annual	Abandon	Below standards for >11 yrs (12/13/12)		
MW- 2A [R]	Station	3/22/2006	86,900	10/17/2022	ND	9/10/2015	Quarterly	Abandon	Below standards >7 yrs (9/10/2015)		
MW- 3 [R]	Station	3/29/2006	2,080,000	12/9/2022	1.1	1/14/2021	Quarterly	Quarterly	Continued monitoring NW of former UST area; GW recovery ceased 3/14/22; below standards <1 yr (1/14/2021)		
MW- 4 [R]	Station	4/4/2006	750,000	12/8/2021	ND	8/23/2018	Quarterly	Abandon	Below standards >4 yrs (8/23/2018)		
MW- 4A	Station	10/29/2007	10,300	11/2/2022	ND	3/10/2009	Quarterly	Abandon	Below standards >13 yrs (3/10/2009)		
MW- 6 [R]	Station	3/22/2006	1,630,000	10/17/2022	ND	6/14/2013	Quarterly	Annual	Continued monitoring West of former UST area; below standards >9 yrs (6/14/2013)		
MW- 7 [R]	Station	5/16/2006	273,000	12/9/2022	ND	2/22/2019	Quarterly	Abandon	Below standards >3 yrs (2/22/2019)		
MW- 8	Station	2/27/2006	22.5	10/18/2022	ND	4/18/2006	Semi-Annual	Abandon	Below standards >16 yrs (4/16/2006)		
MW- 9	Station	3/13/2006	98,000	11/2/2022	ND	10/31/2007	Semi-Annual	Abandon	Below standards >15 yrs (10/31/2007)		
MW- 12	Station	3/13/2006	1.9	11/10/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >16 yrs		
MW- 13 [R]	Station	3/22/2006	239,000	10/18/2022	1.9	8/24/2018	Quarterly	Abandon	Below standards >5 yrs (9/28/2017)		
MW- 15	Station	3/13/2006	15.2	11/10/2022	ND	N/A	Semi-Annual	Abandon	Below standards >16 yrs (3/13/2006)		
MW- 16 [R]	Station	4/12/2006	1,890,000	10/19/2022	ND	6/23/2014	Quarterly	Abandon	Below standards >8 yrs (6/23/2014)		
MW- 16R [R]	Station	2/14/2008	171,000	12/5/2022	8.7	4/16/2021	Quarterly	Quarterly	Continued monitoring NW of former UST area; GW recovery ceased 3/14/22; last above action levels 4/16/2021		
MW- 17	Station	2/24/2006	693,000	10/18/2022	ND	12/4/2018	Quarterly	Annual	Continued monitoring in SW portion of former Station; below standards >14 yrs		
MW- 19 [R]	Station	2/24/2006	1,100,000	10/18/2022	ND	3/14/2016	Quarterly	Abandon	Below standards >6 yrs (3/14/2016)		
MW- 20	Station	N/A	N/A	N/A	N/A	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 21	Station	2/27/2006	458,000	11/2/2022	ND	8/17/2007	Semi-Annual	Abandon	Below standards >15 yrs (8/17/2007)		
MW- 22 [R]	Station	3/9/2006	570,000	10/18/2022	ND	12/27/2017	Quarterly	Abandon	Below standards >5 yrs (12/27/2017)		
MW- 23 [R]	Station	3/13/2006	11,500	11/2/2022	0.30 J	8/16/2007	Semi-Annual	Abandon	Below standards >12 yrs (9/14/2010)		
MW- 24	Station	2/24/2006	1,080,000	11/11/2022	ND	5/21/2008	Semi-Annual	Abandon	Below standards >14 yrs (5/21/2008)		
MW- 25	Station	3/22/2006	605,000	11/29/2022	ND	9/14/2010	Semi-Annual	Abandon	Below standards >12 yrs (9/14/2010)		
MW- 26	Station	3/28/2006	27,300	11/11/2022	ND	2/20/2008	Semi-Annual	Abandon	Below standards >14 yrs (2/20/2008)		
MW- 27 [R]	Station	5/9/2007	869,000	11/19/2022	ND	2/25/2019	Quarterly	Abandon	Below standards >3 yrs (2/25/2019)		
MW- 27B	Station	6/13/2019	120.0	10/19/2022	0.90 J	6/13/2019	Quarterly	Abandon	Below standards >3 yrs (6/13/2019)		
MW- 27R [R]	Station	2/14/2008	138,000	10/19/2022	ND	7/24/2020	Quarterly	Annual	Continued monitoring North of former UST area; last above action levels 7/24/2020		
MW- 29	3313A Paper Mill Road	3/13/2006	719,000	11/28/2022	ND	12/22/2017	Semi-Annual	Abandon	Below standards >5 yrs (12/22/2017)		
MW- 30	3313A Paper Mill Road	3/13/2006	960,000	11/11/2022	ND	12/12/2012	Semi-Annual	Abandon	Below standards >8 yrs (6/16/2014)		
MW- 32	14301 Jarrettsville Pk.	4/6/2006	885,000	11/1/2022	1.1	3/9/2020	Quarterly	Abandon	Below standards >2 yrs (3/9/2020)		
MW- 36	14307 Jarrettsville Pk.	3/7/2006	1,260,000	8/25/2022	1.1	3/19/2013	Semi-Annual	Abandon	Below standards >9 yrs (3/19/2013)		
MW- 36C	14311 Jarrettsville Pk.	3/29/2011	11.9	8/25/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >16 yrs		
MW- 36R	14307 Jarrettsville Pk.	1/6/2011	227	8/25/2022	1.7	3/9/2018	Semi-Annual	Abandon	Below standards >4 yrs (3/9/2018)		
MW- 37 [R]	14307 Jarrettsville Pk.	4/27/2011	1,170	10/27/2022	ND	4/5/2018	Quarterly	Abandon	Below standards >4 yrs (4/5/2018)		
MW- 38 [R]	14311 Jarrettsville Pk.	10/15/2009	2,800	10/27/2022	ND	1/15/2018	Quarterly	Abandon	Below standards >4 yrs (1/15/2018)		
MW- 38B	14311 Jarrettsville Pk.	3/29/2011	272	10/28/2022	ND	4/22/2014	Semi-Annual	Abandon	Below standards >8 yrs (4/22/2014)		
MW- 38C [R]	14311 Jarrettsville Pk.	5/24/2011	26,700	12/6/2022	89	12/6/2022	Monthly*	Monthly*	Actively cycled RW; currently above for MTBE (12/6/2022)		
MW- 40	14223 Robcaste Road	4/4/2006	12,000	12/28/2022	ND	10/9/2019	Quarterly	Quarterly	Continued monitoring SW of station. Typically below standards with occasional fluctuation above. Below standards <1 yr (11/29/2022).		
MW- 41A	Robcaste Road	4/25/2006	2.5	2/23/2022	ND	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 41B	Robcaste Road	12/8/2011	24.9	12/15/2021	ND	12/8/2011	Retained	Abandon	Below standards >7 yrs; only one detection above for MTBE(25) on 12/8/2011		
MW- 41C	Robcaste Road	3/12/2008	0.21 J	12/15/2021	ND	N/A	Retained	Abandon	Never above standards >16 yrs (4 H/S intervals)		
MW- 42A	Robcaste Road	3/6/2006	0.74 J	4/10/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 42B	Robcaste Road	3/6/2006	4.1	2/21/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 42C	Robcaste Road	N/A	ND	2/21/2019	ND	N/A	Retained	Abandon	Never above standards >15 yrs (4 H/S intervals)		

## Attachment 2

## Current and Proposed MW Activity (Analytical Data through December 31, 2022)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well ID	Address	Date of Maximum MtBE Detection	Maximum MtBE Detection since 2006 (µg/L)	Last Sampling Date	Last MtBE Result	Date of Last MtBE Detection Above Action Level	Current Monitoring Activity	Proposed Monitoring Activity	Rationale	MDE Approved Monitoring Activity	MDE Rationale (if not approved)
MW- 43A	Hampshire Glen Ct.	7/27/2006	1,940	3/3/2020	ND	4/24/2007	Retained	Abandon	Below standards >15 yrs (4/24/2007)		
MW- 43B	Hampshire Glen Ct.	6/22/2006	228	12/9/2019	ND	8/2/2006	Retained	Abandon	Below standards >16 yrs (8/2/2006)		
MW- 44	14240 Jarrettsville Pk.	N/A	N/A	N/A	N/A	N/A	Retained	Abandon	Below standards >13 yrs (3/12/2009)		
MW- 45 [R]	14307 Jarrettsville Pk.	3/10/2006	498,000	12/9/2022	8.2	3/11/2022	Quarterly	Quarterly	Continued monitoring NE of intersection; GW recovery ceased 3/14/22; below standards <1 yr (3/11/2022)		
MW- 45R [R]	14307 Jarrettsville Pk.	7/28/2009	3,140	12/9/2022	ND	3/30/2022	Quarterly	Quarterly	Continued monitoring NE of intersection; GW recovery ceased 3/14/22; below standards <1 yr (3/20/2022)		
MW- 46	14240 Jarrettsville Pk.	N/A	N/A	N/A	N/A	N/A	Gauging only	Abandon	Below standards >14 yrs (4/23/2008)		
MW- 47A	Hampshire Glen Ct.	3/16/2006	29	2/13/2019	ND	3/16/2006	Gauging only	Abandon	Below standards >16 yrs (3/16/2006)		
MW- 47BB	3501 Hampshire Glen Ct.	6/10/2014	1.2	10/28/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >16 yrs		
MW- 47C	3501 Hampshire Glen Ct.	3/29/2011	35.3	1/29/2021	ND	12/19/2012	Semi-Annual	Abandon	Never above standards >10 yrs (12/19/2012)		
MW- 48A	Hampshire Glen Ct.	3/16/2006	2.9	2/8/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 48B	Hampshire Glen Ct.	3/16/2006	11.6	2/8/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 48D	Hampshire Glen Ct.	N/A	ND	8/30/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >16 yrs		
MW- 50	3313 Paper Mill Road	1/9/2008	15	N/A	N/A	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 50B	3313 Paper Mill Road	2/14/2008	0.48 J	2/8/2019	ND	N/A	Retained	Abandon	Never above standards >14 yrs		
MW- 50C	3313 Paper Mill Road	5/5/2006	61.6	2/8/2019	ND	5/5/2006	Retained	Abandon	Below standards >16 yrs (5/5/2006) (4 H/S intervals)		
MW- 52	14242 Jarrettsville Pike	3/7/2006	281,000	8/25/2022	ND	3/24/2009	Semi-Annual	Abandon	Below standards >13 yrs (3/24/2009)		
MW- 53A	Robcaste Road	9/14/2010	1.7	12/12/2017	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 53B	Robcaste Road	4/10/2006	40	5/10/2019	ND	9/22/2009	Retained	Abandon	Below standards >13 yrs (9/22/2009)		
MW- 53C	Robcaste Road	4/6/2006	17.1	2/18/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs (2 H/S intervals)		
MW- 54	14307 Jarrettsville Pk.	6/22/2010	84,200	10/27/2022	ND	12/15/2017	Quarterly	Abandon	Below standards >5 yrs (12/15/2017)		
MW- 54B [R]	14307 Jarrettsville Pk.	2/20/2012	182,000	12/6/2022	290	12/6/2022	Monthly*	Monthly*	Actively cycled RW; currently above for MTBE (12/6/2022)		
MW- 54C	14307 Jarrettsville Pk.	4/26/2012	183,000	12/21/2022	65	12/21/2022	Semi-Annual	Quarterly	Currently above for MTBE (12/21/2022)		
MW- 56A	Robcaste Road	N/A	N/A	N/A	N/A	N/A	Gauging only	Abandon	Below standards >15 yrs (5/10/2007)		
MW- 56B	Robcaste Road	1/11/2008	56.2	2/21/2019	0.3 J	3/10/2009	Retained	Abandon	Below standards >13 yrs (3/10/2009)		
MW- 56C	Robcaste Road	12/5/2011	22.6	10/27/2020	ND	3/12/2014	Retained	Abandon	Below standards >8 yrs (3/12/2014) (3 H/S intervals)		
MW- 57	3501 Hampshire Glen Ct.	11/7/2006	89,400	10/28/2022	ND	6/10/2010	Semi-Annual	Abandon	Below standards >12 yrs (6/10/2010)		
MW- 58	3501 Hampshire Glen Ct.	8/22/2006	52,700	10/28/2022	0.35 J	11/30/2011	Semi-Annual	Abandon	Below standards >11 yrs; (3/30/2011)		
MW- 59A	Hampshire Glen Ct.	3/21/2006	889,000	9/7/2022	0.27 J	9/26/2011	Semi-Annual	Abandon	Below standards >11 yrs (9/26/2011)		
MW- 59B [R]	Hampshire Glen Ct.	8/1/2006	486,000	10/28/2022	0.37 J	10/9/2019	Quarterly	Abandon	Below standards >3 yrs (10/9/2019)		
MW- 59D	Hampshire Glen Ct.	3/28/2006	456,000	11/15/2022	ND	3/9/2011	Semi-Annual	Abandon	Below standards >11 yrs (3/9/2011)		
MW- 60	14219 Robcaste Road	4/25/2006	754	2/14/2019	ND	1/17/2007	Retained	Abandon	Below standards >15 yrs (1/17/2007)		
MW- 61A	Hampshire Glen Ct.	3/16/2006	1.1	3/4/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 61B	Hampshire Glen Ct.	4/19/2006	9.2J	3/4/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 66	14219 Robcaste Road	12/7/2009	12.2	12/13/2017	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 67	14221 Robcaste Road	N/A	N/A	N/A	N/A	N/A	Gauging only	Retain	Never above standards >16 yrs; retain for potential sampling SW and downgradient of station and wells proposed for continued sampling		
MW- 68	14210 Robcaste Road	N/A	N/A	N/A	N/A	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 72	14223 Robcaste Road	4/18/2006	215,000	11/2/2022	ND	12/20/2010	Semi-Annual	Annual	Continued monitoring SW of Station and downgradient of MW-40; below standards >12 yrs (12/20/2010)		
MW- 73	14311 Jarrettsville Pk.	12/20/2019	260	6/6/2022	1.7	6/22/2020	Retained	Abandon	Below standards >16 yrs (3/15/2006 - only exceedance)		
MW- 73C	14315 Jarrettsville Pk.	11/16/2015	1,900	12/9/2022	6.1	12/20/2019	Quarterly	Quarterly	Continued monitoring NE of Station; GW recovery ceased 3/14/22; below standards >2 yrs (6/22/2020)		
MW- 75 [R]	3503 Hampshire Glen Ct.	4/18/2006	259,000	11/1/2022	ND	12/10/2014	Quarterly	Abandon	Below standards >8 yrs (12/10/2014)		
MW- 76	3508 Hampshire Glen Ct.	3/15/2006	130,000	11/15/2022	0.28 J	2/19/2007	Semi-Annual	Abandon	Below standards >15 yrs (2/19/2007)		
MW- 77A	3508 Hampshire Glen Ct.	3/21/2006	98,300	9/7/2022	0.21 J	9/26/2013	Semi-Annual	Abandon	Below standards >9 yrs (9/26/2013)		
MW- 77B	3508 Hampshire Glen Ct.	3/21/2006	156,000	9/7/2022	ND	12/18/2008	Semi-Annual	Abandon	Below standards >14 yrs (12/18/2008)		
MW- 78A	3605B Southside Ave	3/13/2008	451	8/9/2022	ND	4/23/2008	Quarterly	Abandon	Below standards >14 yrs (4/23/2008)		
MW- 78C	3605B Southside Ave	3/30/2006	448	8/9/2022	ND	5/17/2006	Quarterly	Abandon	Below standards >16 yrs (7/20/2006)		
MW- 80A	3600 Hampshire Glen Ct.	4/7/2006	37,200	9/7/2022	ND	3/13/2008	Semi-Annual	Abandon	Below standards >14 yrs (3/13/2008)		
MW- 80B	3600 Hampshire Glen Ct.	4/21/2006	10,700	9/7/2022	ND	7/26/2010	Semi-Annual	Abandon	Below standards >12 yrs (7/26/2010)		

## Attachment 2

## Current and Proposed MW Activity (Analytical Data through December 31, 2022)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well ID	Address	Date of Maximum MtBE Detection	Maximum MtBE Detection since 2006 (µg/L)	Last Sampling Date	Last MtBE Result	Date of Last MtBE Detection Above Action Level	Current Monitoring Activity	Proposed Monitoring Activity	Rationale	MDE Approved Monitoring Activity	MDE Rationale (if not approved)
MW- 81	3600 Hampshire Glen Ct.	3/17/2006	38.5	2/25/2019	ND	3/17/2006	Gauging only	Abandon	Below standards >16 yrs (3/17/2006)		
MW- 82	3508 Hampshire Glen Ct.	4/12/2006	38,700	11/1/2022	ND	12/17/2013	Quarterly	Abandon	Below standards >9 yrs (12/17/2013)		
MW- 82B [R]	3508 Hampshire Glen Ct.	7/2/2014	4,670	11/1/2022	2.2	2/21/2022	Quarterly	Quarterly	Continued monitoring NE of station; below standards < 1 yr (2/21/2022)		
MW- 82D [R]	3508 Hampshire Glen Ct.	8/19/2014	302	12/6/2022	ND	2/25/2019	Quarterly	Quarterly	Continued monitoring NE of station; below standards >3 yrs (2/25/2019)		
MW- 82R [R]	3508 Hampshire Glen Ct.	4/11/2006	40,000	11/1/2022	ND	1/9/2019	Quarterly	Abandon	Below standards >8 yrs (1/27/2014)		
MW- 83	3508 Hampshire Glen Ct.	6/6/2007	15,800	2/25/2019	ND	6/6/2007	Gauging only	Abandon	Below standards >15 yrs (6/6/2007)		
MW- 83R	3508 Hampshire Glen Ct.	8/22/2006	27.8	2/25/2019	ND	8/22/2006	Retained	Abandon	Below standards >16 yrs (8/22/2006)		
MW- 84	14301 Jarrettsville Pk.	4/11/2006	560,000	9/9/2022	ND	3/28/2013	Semi-Annual	Abandon	Below standards >9 yrs (3/28/2013)		
MW- 85	14301 Jarrettsville Pk.	3/29/2006	198,000	8/25/2022	ND	9/19/2017	Semi-Annual	Abandon	Below standards for 5 yrs (9/19/2017)		
MW- 87	14301 Jarrettsville Pk.	8/21/2007	5,890	8/25/2022	ND	1/23/2012	Semi-Annual	Abandon	Below standards >10 yrs (1/23/2012)		
MW- 88	14301 Jarrettsville Pk.	3/18/2006	807	9/9/2022	ND	9/17/2007	Semi-Annual	Abandon	Below standards >15 yrs (9/17/2007)		
MW- 89 [R]	3508 Hampshire Glen Ct.	6/8/2007	12,900	11/1/2022	ND	4/4/2018	Quarterly	Abandon	Below standards >4 yrs (4/4/2018)		
MW- 91	3501 Hampshire Glen Ct.	5/22/2009	1.7	10/28/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >16 yrs		
MW- 91C [R]	3501 Hampshire Glen Ct.	8/23/2011	59,700	12/6/2022	0.52 J	5/5/2014	Quarterly	Annual	Continued monitoring NE of station; below standards >8 yrs (5/5/2014)		
MW- 91D	3501 Hampshire Glen Ct.	1/6/2011	1	10/28/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >12 yrs		
MW- 92A	Hampshire Glen Ct.	N/A	ND	6/18/2019	ND	N/A	Gauging only	Abandon	Never above standards >15 yrs		
MW- 94	Hampshire Glen Ct.	4/12/2006	0.43 J	2/25/2019	ND	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 95	3605B Southside Ave	2/19/2007	6.1	3/6/2019	ND	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 96A	14219 Robcaste Road	N/A	N/A	N/A	N/A	N/A	Gauging only	Abandon	Below standards >14 yrs (5/14/2008)		
MW- 97	14221 Robcaste Road	N/A	N/A	N/A	N/A	N/A	Gauging only	Abandon	Below standards >16 yrs (3/22/2006)		
MW- 99A	3605A Southside Ave	4/3/2006	7.2	11/1/2022	ND	N/A	Quarterly	Abandon	Never above standards >16 yrs		
MW- 100B	3605A Southside Ave	4/11/2006	2,780	6/23/2022	ND	7/25/2006	Retained	Abandon	Below standards >16 yrs (7/25/2006)		
MW- 101A	3605A Southside Ave	5/17/2006	0.47 J	11/1/2022	ND	N/A	Quarterly	Abandon	Never above standards >16 yrs		
MW- 105	Station	12/7/2010	8.1	11/2/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >16 yrs		
MW- 106	3525 Southside Ave	3/17/2010	0.59 J	9/7/2022	ND	N/A	Semi-Annual	Abandon	Never above standards >16 yrs		
MW- 107	3501 Hampshire Glen Ct.	2/22/2007	0.56 J	5/13/2019	ND	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 108	14311 Jarrettsville Pk.	11/12/2013	4.9	5/14/2019	ND	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 109	Station	4/12/2006	62,700	8/25/2022	ND	11/10/2006	Retained	Abandon	Below standards >15 yrs (8/16/2007)		
MW- 110	14307 Jarrettsville Pk.	10/19/2006	155,000	9/7/2022	ND	11/8/2011	Semi-Annual	Abandon	Below standards >11 yrs (11/8/2011)		
MW- 121 [R]	14301 Jarrettsville Pk.	4/12/2006	448,000	12/9/2022	ND	3/4/2019	Quarterly	Abandon	Below standards >3 yrs (3/4/2019)		
MW- 125	14223 Robcaste Road	8/18/2006	40.9	11/29/2022	ND	3/22/2012	Semi-Annual	Abandon	Below standards >10 yrs (3/22/2012)		
MW- 131A	3605C Southside Ave	4/23/2008	39.9	8/9/2017	ND	5/15/2008	Retained	Abandon	Below standards >14 yrs (5/15/2008) no access		
MW- 131B	3605C Southside Ave	6/20/2006	60.7	8/9/2017	ND	4/29/2008	Retained	Abandon	Below standards >14 yrs (4/29/2008) no access		
MW- 131C	3605C Southside Ave	N/A	ND	8/9/2017	ND	N/A	Retained	Abandon	Never above standards >14 yrs (7 H/S intervals) no access		
MW- 133A	3605A Southside Ave	N/A	ND	2/28/2019	ND	N/A	Gauging only	Abandon	Never above standards >16 yrs		
MW- 133B	3605A Southside Ave	N/A	ND	2/28/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 133C	3605A Southside Ave	6/25/2009	27	2/28/2019	ND	6/25/2009	Retained	Abandon	Below standards >13 yrs (6/25/2009) (3 H/S intervals)		
MW- 135A	3504 Hampshire Glen	5/18/2006	0.86 J	2/13/2019	ND	N/A	Retained	Abandon	Never above standards >16 yrs		
MW- 135B	3504 Hampshire Glen	5/18/2006	106	2/13/2019	ND	5/18/2006	Retained	Abandon	Below standards >16 yrs (5/18/2006)		
MW- 135C	14335 Jarrettsville Pk.	N/A	ND	8/30/2022	ND	N/A	Retained	Abandon	Never above standards >12 yrs		
MW- 137	3506 Hampshire Glen	4/20/2006	23,400	11/15/2022	ND	2/18/2008	Semi-Annual	Abandon	Below standards >14 yrs (2/18/2006)		
MW- 138	3506 Hampshire Glen	12/22/2009	26	9/8/2022	ND	12/22/2009	Semi-Annual	Abandon	Below standards > 13 yrs (12/22/2009)		
MW- 138D [R]	3506 Hampshire Glen	2/28/2017	760	12/28/2022	0.68 J	1/11/2019	Quarterly	Quarterly	Continued monitoring NE of Station; GW recovery ceased 3/14/22; below standards >1 yr (12/13/2021). Minimal variation across 10 H/S discrete sample intervals, therefore proposed change to 3 H/S samples from shallow (115' to 120'), intermediate (230' to 235'), and deep (350' to 355') intervals of open borehole.		
MW- 139	Station	5/19/2006	80,400	12/5/2022	31	12/5/2022	Quarterly	Quarterly	Continued monitoring North of former UST area; currently above for MTBE (12/5/2022)		
MW- 140A	14219 Robcaste Road	N/A	N/A	N/A	N/A	N/A	Gauging only	Abandon	Below standards >16 yrs (10/18/2006)		
MW- 140B	14219 Robcaste Road	5/18/2006	150	12/14/2021	ND	11/10/2006	Retained	Abandon	Below standards >16 yrs (11/10/2006)		
MW- 143	3418 Sweet Air	5/9/2006	11,400	5/14/2019	0.6 J	5/22/2008	Retained	Abandon	Below standards >14 yrs (5/22/2008)		
MW- 144	Station	5/16/2006	1,200,000	11/2/2022	ND	9/17/2014	Semi-Annual	Abandon	Below standards >8 yrs (9/17/2014)		

## Attachment 2

## Current and Proposed MW Activity (Analytical Data through December 31, 2022)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well ID	Address	Date of Maximum MtBE Detection	Maximum MtBE Detection since 2006 (µg/L)	Last Sampling Date	Last MtBE Result	Date of Last MtBE Detection Above Action Level	Current Monitoring Activity	Proposed Monitoring Activity	Rationale	MDE Approved Monitoring Activity	MDE Rationale (if not approved)
MW- 146	3320 Paper Mill Road	6/8/2009	10.6	2/14/2018	ND	N/A	Retained	Abandon	Never above standards >16 yrs; no access		
MW- 146B	3320 Paper Mill Road	N/A	ND	2/14/2018	ND	N/A	Retained	Abandon	Never above standards >16 yrs; no access		
MW- 146C	3320 Paper Mill Road	12/18/2017	14	2/27/2018	ND	N/A	Retained	Abandon	Never above standards >8 yrs; (2 H/S intervals) no access		
MW- 151 [R]	Station	7/20/2006	146,000	10/18/2022	3.3	8/7/2012	Quarterly	Abandon	Below standards >10 yrs (8/7/2012)		
MW- 152 [R]	Station	10/20/2006	32,000	12/9/2022	ND	12/27/2017	Quarterly	Abandon	Below standards >15 yrs (12/27/2017)		
MW- 154	3313A Paper Mill Road	9/8/2006	7,100	11/29/2022	ND	1/9/2008	Semi-Annual	Abandon	Below standards > 14 yrs (1/9/2008)		
MW- 159	14223 Robcaste Road	11/13/2006	2,360	11/10/2022	ND	6/8/2010	Semi-Annual	Abandon	Below standards >12 yrs (6/8/2010)		
MW- 160	14223 Robcaste Road	9/14/2006	41,100	11/2/2022	ND	3/22/2012	Semi-Annual	Abandon	Below standards >10 yrs (3/22/2012)		
MW- 162A	3605D Southside Ave	5/19/2008	0.76 J	2/28/2019	ND	N/A	Retained	Abandon	Never above standards >14 yrs		
MW- 162B	3605D Southside Ave	N/A	ND	2/28/2019	ND	N/A	Retained	Abandon	Never above standards >14 yrs		
MW- 162C	3605D Southside Ave	N/A	ND	3/11/2019	ND	N/A	Retained	Abandon	Never above standards >14 yrs (4 H/S intervals)		
MW- 166A	3418 Sweet Air	N/A	ND	5/14/2019	ND	N/A	Gauging only	Abandon	Never above standards >15 yrs		
MW- 166C	3418 Sweet Air	12/18/2012	0.28J	3/11/2019	ND	N/A	Retained	Retained	Never above standards >14 yrs (6 H/C intervals); retain for potential sampling East and sidegradient of station; inactive private supply well		
MW- 167	3501 Hampshire Glen	4/17/2009	725	3/3/2020	0.2 J	6/12/2009	Retained	Abandon	Below standards >13 yrs (6/12/2009)		
MW- 168	3501 Hampshire Glen	5/11/2010	8,040	8/26/2022	ND	11/16/2015	Semi-Annual	Quarterly	Continued monitoring NE of Station; below standards >7 yrs (11/3/2015)		
MW- 169 [R]	3501 Hampshire Glen	11/23/2009	792	10/20/2022	ND	7/24/2012	Quarterly	Abandon	Below standards >10 yrs (7/24/2012)		
MW- 170 [R]	3501 Hampshire Glen	6/11/2009	3,710	10/20/2022	ND	7/24/2012	Quarterly	Abandon	Below standards >10 yrs (7/24/2012)		
MW- 171	3501 Hampshire Glen	6/11/2009	2,990	8/25/2022	1.4	1/28/2016	Semi-Annual	Abandon	Below standards >6 yrs (1/28/2016)		
MW- 171C	3501 Hampshire Glen	8/31/2010	16.2	8/30/2022	1.6	N/A	Semi-Annual	Abandon	Below standards >12 yrs (8/23/2010)		
MW- 176 [R]	3501 Hampshire Glen	7/27/2010	14,600	10/20/2022	9.9	12/20/2018	Quarterly	Abandon	Below standards >5 yrs (3/24/2017)		
MW- 176CC	3501 Hampshire Glen	8/29/2012	15.7	8/26/2022	0.26 J	N/A	Semi-Annual	Abandon	Never above standards >11 yrs		
MW- 177	3501 Hampshire Glen	3/28/2011	1,070	11/29/2022	1.3	10/24/2011	Semi-Annual	Abandon	Below standards >10 yrs (10/18/2012)		
MW- 178A	3501 Hampshire Glen	1/31/2012	16.4	5/20/2019	ND	N/A	Gauging only	Abandon	Never above standards >12 yrs		
MW- 178B	3501 Hampshire Glen	6/19/2012	55.2	10/20/2022	1.4	1/2/2020	Quarterly	Annual	Continued monitoring NE of Station; below standards >3 yrs (12/6/2019)		
MW- 178C [R]	3501 Hampshire Glen	12/6/2011	120,000	12/5/2022	59	12/5/2022	Monthly*	Monthly*	Continued monitoring NE of station and immediately downgradient of actively cycled RWs; currently above for MTBE (12/5/2022); GW recovery ceased 1/27/23		
MW- 179A	3501 Hampshire Glen	4/27/2011	108	1/13/2020	ND	8/22/2012	Gauging only	Abandon	Below standards >10 yrs (8/22/2012)		
MW- 179C	3501 Hampshire Glen	3/29/2011	113	11/29/2022	8.5	11/12/2013	Semi-Annual	Abandon	Below standards >4 yrs (10/16/2018)		
MW- 180A	3501 Hampshire Glen	10/25/2010	47.2	8/25/2022	ND	11/29/2010	Semi-Annual	Abandon	Below standards >12 yrs (11/29/2010)		
MW- 180C	3501 Hampshire Glen	1/28/2011	30.7	8/25/2022	0.75 J	7/29/2011	Semi-Annual	Abandon	Below standards >11 yrs (9/21/2011)		
MW- 181A [R]	14301 Jarrettsville Pk.	11/30/2010	3,140	11/1/2022	14	2/21/2022	Quarterly	Quarterly	Continued monitoring NE of Station; below standards >3 yrs (5/21/2019)		
MW- 181B	14301 Jarrettsville Pk.	4/28/2011	2,890	8/25/2022	3.4	8/20/2014	Semi-Annual	Annual	Continued monitoring NE of Station; below standards >8 yrs (8/20/2014)		
MW- 181C	14301 Jarrettsville Pk.	1/27/2011	134	12/28/2022	19	3/18/2019	Quarterly	Annual	Continued monitoring NE of Station; below standards >4 yrs (8/24/2018)		
MW- 182	3501 Hampshire Glen	1/26/2012	917	10/20/2022	17	3/18/2019	Quarterly	Abandon	Below standards >3 yrs (3/18/2019)		
MW- 183 [R]	3501 Hampshire Glen	12/22/2011	131,000	12/9/2022	5.9	6/24/2022	Quarterly	Quarterly	Continued monitoring NE of Station; GW recovery ceased 3/14/22; below standards <1 yr (6/24/2022)		
MW- 184 [R]	3501 Hampshire Glen	12/22/2011	8,010	10/20/2022	5.2	4/16/2020	Quarterly	Abandon	Below standards >2 yrs (4/16/2020)		
MW- 185 [R]	3501 Hampshire Glen	1/26/2012	7,960	7/28/2022	ND	2/8/2016	Quarterly	Abandon	Below standards >6 yrs (2/8/2016)		
MW- 186D	14315 Jarrettsville Pk.	8/19/2014	1	3/14/2019	ND	N/A	Retained	Abandon	Never above standards >9 yrs H/S		
MW- 187A [R]	Intersection	4/1/2015	18,000	12/5/2022	62	12/5/2022	Monthly*	Monthly*	Actively cycled RW; currently above for Benzene and MTBE (12/5/2022)		
MW- 187B [R]	Intersection	12/11/2014	9,900	12/5/2022	9.3	5/23/2022	Monthly*	Monthly*	Continued monitoring North of station and within intersection; below standards <1 yr (6/6/2022) ; GW recovery ceased 3/14/22		
MW- 187C [R]	Intersection	11/6/2019	890	12/6/2022	260	12/6/2022	Monthly*	Monthly*	Actively cycled RW; currently above for MTBE (12/6/2022)		
MW- 188D	14311 Jarrettsville Pk.	8/19/2013	32.6	8/29/2022	0.20 J	9/14/2018	Quarterly	Abandon	Below standards >4 yrs		
MW- 189D (79)	3605A Southside Ave	3/23/2017	8	12/21/2022	340	12/21/2022	Quarterly	Quarterly	Continued monitoring NE of Station; currently above for MTBE (12/21/2022)		

Attachment 2

Current and Proposed MW Activity (Analytical Data through December 31, 2022)  
 Inactive Exxon Facility #28077  
 14258 Jarrettsville Pike  
 Phoenix, Maryland

Well ID	Address	Date of Maximum MtBE Detection	Maximum MtBE Detection since 2006 (µg/L)	Last Sampling Date	Last MtBE Result	Date of Last MtBE Detection Above Action Level	Current Monitoring Activity	Proposed Monitoring Activity	Rationale	MDE Approved Monitoring Activity	MDE Rationale (if not approved)
PW- 14311	14311 Jarrettsville Pk.	N/A	2	2/11/2019	ND	N/A	Retained	Retained	Retained as inactive supply well; never above standards >13 yrs		
PW- 3501	3501 Hampshire Glen	N/A	1	12/9/2022	ND	N/A	Retained	Retained	Retained as inactive supply well; never above j-flag		
SVE- 1 [R]	Station	6/4/2010	25,600	12/9/2022	2.2	4/27/2022	Quarterly	Quarterly	Continued monitoring North of former UST area; below standards <1 yr (4/27/2022); GW recovery ceased 3/14/22		
SVE- 2 [R]	Station	8/20/2012	1,840	10/19/2022	16	2/1/2019	Quarterly	Annual	Continued monitoring within former UST area; below standards >3 yrs (2/1/2019)		
SVE- 3 [R]	Station	6/24/2009	15,600	12/9/2022	ND	11/6/2019	Quarterly	Annual	Continued monitoring within former UST area; below standards >3 yrs (11/6/2019); GW recovery ceased 3/14/22		

\* Monthly sampling during cycling assessment, reverts to quarterly thereafter.  
 H/S = HydraSleeve® discrete depth sampler  
 [R] = Recovery Well