

From: R. Scott Powell <rspowell@enviroforensics.com>
Sent: Wednesday, November 27, 2024 1:51 PM
To: Schultz, Josie M - DNR
Cc: Andy Skwierawski; Ted A. Warpinski; Nic Downton
Subject: 1404 S Webster, BRRTS # 02-05-514372
Attachments: 2024.11.27 Q4 Update Package.pdf

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Hello Josie,

I have attached the 2024 Q4 data tables, potentiometric flow map, and a groundwater analytical summary figure for your review. However, the PFAS results are not depicted on the analytical figure. Let me know if you have any questions.

Best regards,

R. Scott Powell, PE, LPG | Regional Director
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Legend

- Property boundary
- MW-1 Monitoring Well (By Others)
- MW-7 Monitoring Well
- 611.80 Groundwater elevation contour
- 613.06 Groundwater elevation (feet above mean sea level)
- *613.27* Anomalous Groundwater elevation not used

POTENTIOMETRIC SURFACE MAP
OCTOBER 16, 2024

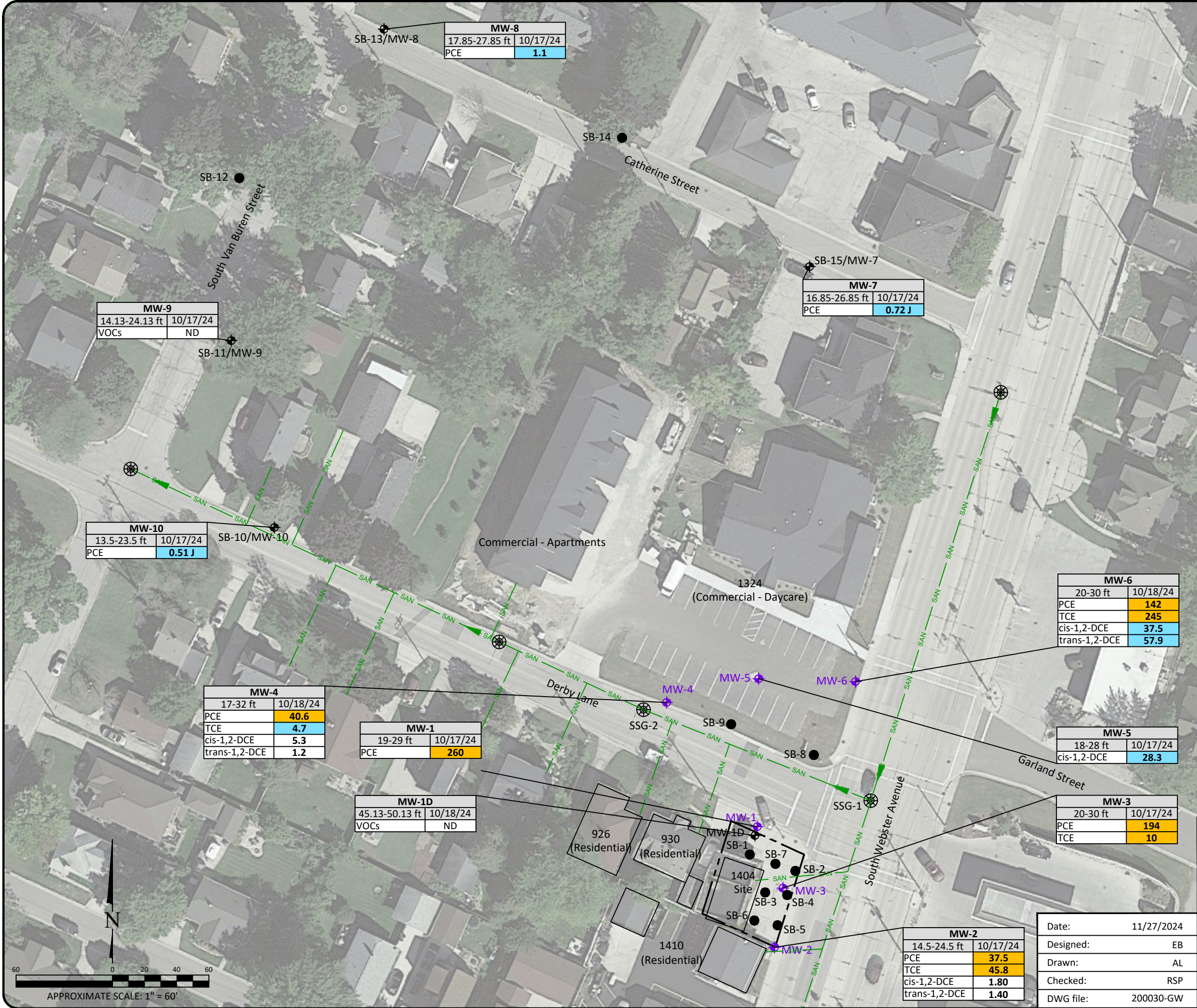
1404 South Webster Avenue
Green Bay, Wisconsin

Date:	11/26/2024
Designed:	EB
Drawn:	AL
Checked:	ND
DWG file:	200030-pot



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Figure
1
Project
200030



Legend

- Property boundary
- Underground sanitary utility line
- Arrow for flow direction
- Manhole
- Monitoring Well (By Others)
- Monitoring Well
- Soil Boring
- Sewer gas sample location

Analyte	Public Health Preventive Action Limit	Public Health Enforcement Standard
PCE	0.5	5
TCE	0.5	5
cis-1,2-DCE	7	70
trans-1,2-DCE	20	100
Vinyl Chloride	0.02	0.2

- Note:
- Bolded and orange shaded values exceed the Public Health Enforcement Standard
 - Bolded and blue shaded values exceed the Public Health Preventive Action Limit
 - Bolded values are above detection limits
 - J = Analyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit
 - Samples analyzed using EPA SW-846 Method 8260
 - Samples/constituents not shown are below laboratory reporting limits
 - All results reported in units of micrograms per liter (µg/L)
 - PCE = Tetrachloroethene
 - TCE = Trichloroethene
 - cis-1,2-DCE = cis-1,2-Dichloroethene
 - trans-1,2-DCE = trans-1,2-Dichloroethene
 - VOCs = Volatile Organic Compounds
 - ND = Not detected

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - OCTOBER 2024

1404 South Webster Avenue
Green Bay, Wisconsin



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Figure

*

Project

200030

Date: 11/27/2024

Designed: EB

Drawn: AL

Checked: RSP

DWG file: 200030-GW

MW-2	14.5-24.5 ft	10/17/24
PCE	37.5	
TCE	45.8	
cis-1,2-DCE	1.80	
trans-1,2-DCE	1.40	

MW-6	20-30 ft	10/18/24
PCE	142	
TCE	245	
cis-1,2-DCE	37.5	
trans-1,2-DCE	57.9	

MW-5	18-28 ft	10/17/24
cis-1,2-DCE	28.3	

MW-3	20-30 ft	10/17/24
PCE	194	
TCE	10	

MW-8	17.85-27.85 ft	10/17/24
PCE	1.1	

MW-7	16.85-26.85 ft	10/17/24
PCE	0.72 J	

MW-9	14.13-24.13 ft	10/17/24
VOCs	ND	

MW-10	13.5-23.5 ft	10/17/24
PCE	0.51 J	

MW-4	17-32 ft	10/18/24
PCE	40.6	
TCE	4.7	
cis-1,2-DCE	5.3	
trans-1,2-DCE	1.2	

MW-1	19-29 ft	10/17/24
PCE	260	

MW-1D	45.13-50.13 ft	10/18/24
VOCs	ND	

TABLE A.5

GROUNDWATER ANALYTICAL RESULTS

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well Sample ID	Screened Interval (feet bgs)	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Enforcement Standard			5	5	70	100	0.2
Preventive Action Limit			0.5	0.5	7	20	0.02
MW-1	19-29	01/31/17	570	5.2 J	<2.05	<1.75	<0.95
		04/20/17	187	82	29.1	91	<1.9
		05/30/18	267	35	51	62	<2
		11/26/18	540	<3	<3.7	<3.4	<2
		02/23/22	142	0.72 J	<0.32	<0.5	<0.15
		09/30/22	353	<1.6	<2.4	<2.6	<0.87
		DUP 9/30	370	<1.6	<2.4	<2.6	<0.87
		04/23/23	64.1	< 0.190	22.6	9.85	< 0.234
		DUP 4/23	72.3	<3.8	40.5	16.1	<4.68
		07/26/23	241	0.53 J	<0.32	<0.5	< 0.15
		DUP 7/26	279	<3.8	<3.2	<5	<1.5
		10/17/24	260	<1.3	<1.9	<2.1	<0.70
		Dup 10/17	309	<1.3	<1.9	<2.1	<0.70
MW-1D	45.13-50.13	9/30/2022	2.4	0.64 J	1.2	<0.53	<0.17
		4/24/2023	0.616 J	1.27	0.356 J	< 0.497	<0.234
		7/27/2023	<0.47	0.46 J	<0.32	< 0.5	<0.15
		10/18/2024	<0.41	<0.32	<0.47	<0.53	<0.17
MW-2	14.5-24.5	01/31/17	70	52	1.94	0.66	<0.19
		04/20/17	40	53	4.8	1.22	0.23 J
		05/30/18	59	35	5.4	1.11	0.28 J
		11/26/18	125	34	3.08	0.75	<0.2
		02/25/22	60	64	7.2	5.2	<0.15
		09/30/22	42.5	67.5	3.0	1.9	<0.17
		04/23/23	58.6	39.6	1.57	1.13	<0.234
		07/26/23	51	56	1.60	1.29 J	<0.15
		10/17/24	37.5	45.8	1.80	1.40	<0.17
MW-3	20-30	01/31/17	213	106	4.9	5.3	<0.19
		04/20/17	107	118	<4.1	4.2	<1.9
		05/30/18	81	110	<3.7	<3.4	<2
		11/26/18	293	7.3 J	<3.7	<3.4	<2
		02/23/22	147	88	7.5	7.5	0.34 J
		09/30/22	196	10.4	<0.94	<1.1	<0.35
		04/23/23	6.28 J	16.4	32.4	<9.93	<4.68
		07/26/23	159	3.2	<0.32	<0.5	<0.15
		10/17/24	194	10	<1.2	<1.3	<0.44

TABLE A.5

GROUNDWATER ANALYTICAL RESULTS

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well Sample ID	Screened Interval (feet bgs)	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Enforcement Standard			5	5	70	100	0.2
Preventive Action Limit			0.5	0.5	7	20	0.02
MW-4	17-32	01/31/17	31.1	<0.45	<0.41	<0.35	<0.19
		04/20/17	45	<0.45	<0.41	<0.35	<0.19
		05/30/18	93	0.76 J	1.07	1.02	<0.2
		11/26/18	96	1.91	1.59	1.97	<0.2
		10/31/19	85.5	2.2	<3.6	<4.4	<0.17
		01/30/20	65.7	1.8	1.3	<1.1	<0.17
		02/23/22	48	2.12	2.01	1.33 J	<0.15
		09/30/22	79.4	3.8	3.7	2.2	<0.17
		04/24/23	134	7.22	4.00	1.43	<0.234
		07/27/23	41	6.1	4.4	2.06	<0.15
		10/18/24	40.6	4.7	5.3	1.2	<0.17
MW-5	18-28	01/31/17	16.4	16.4	26	54	<0.95
		04/20/17	13.4 J	9.2	24.4	62	<1.9
		05/30/18	<3.8	<3	85	4.1	<2
		11/26/18	3.8 J	<1.5	76	5.0	<1
		10/31/19	4.2 J	<1.3	79.7	10.6 J	<0.87
		01/30/20	1.9 J	<1.3	85.5	8.3 J	<0.87
		02/23/22	1.72 J	1.03 J	47	7.1	<0.15
		09/30/22	<4.1	<3.2	38.3	<5.3	<1.7
		04/23/23	0.588 J	< 0.633	21.8	1.63	<0.234
		07/26/23	<4.7	< 3.8	26.5	<5	<1.5
		10/17/24	<4.1	<3.2	28.3	<5.3	<1.7
MW-6	20-30	01/31/17	122	78	35	66	0.28 J
		04/20/17	126	79	41	73	0.55 J
		05/30/18	115	132	57	127	0.64 J
		11/26/18	55	93	45	89	0.44 J
		10/31/19	101	212	48.4	100	<0.70
		01/30/20	113	251	<14.5	<17.5	<0.70
		02/23/22	185	202	35	66	0.42 J
		09/29/22	51.8	174	31.4	49.3	<0.35
		04/24/23	67.7	134	30.4	50.1	0.578 J
		07/27/23	80	163	34	61	0.55 J
		10/18/24	142	245	37.5	57.9	<0.35

TABLE A.5 GROUNDWATER ANALYTICAL RESULTS

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well Sample ID	Screened Interval (feet bgs)	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Enforcement Standard			5	5	70	100	0.2
Preventive Action Limit			0.5	0.5	7	20	0.02
MW-7	16.85-26.85	09/29/22	0.45 J	<0.32	<0.47	<0.53	<0.17
		04/24/23	0.745 J	<0.190	< 0.420	< 0.497	<0.234
		07/27/23	0.87 J	<0.38	< 0.32	< 0.5	<0.15
		10/17/24	0.72 J	<0.32	<0.47	<0.53	<0.17
MW-8	17.85-27.85	09/29/22	0.58 J	<0.32	<0.47	<0.53	<0.17
		04/24/23	0.315 J	<0.19	< 0.42	< 0.497	<0.234
		07/27/23	0.81 J	<0.38	< 0.32	< 0.5	<0.15
		10/17/24	1.1	<0.32	<0.47	<0.53	<0.17
MW-9	14.13-24.13	09/29/22	<0.41	<0.32	<0.47	<0.53	<0.17
		04/24/23	<0.300	<0.190	< 0.42	< 0.497	<0.234
		07/27/23	<0.47	<0.38	< 0.32	< 0.5	<0.15
		10/17/24	<0.41	<0.32	<0.47	<0.53	<0.17
MW-10	13.5-23.5	09/30/22	<0.41	<0.32	<0.47	<0.53	<0.17
		DUP 9/30	0.42 J	<0.32	<0.47	<0.53	<0.17
		04/23/23	0.403 J	<0.190	< 0.420	< 0.497	<0.234
		DUP 4/23	0.365 J	<0.190	< 0.370	< 0.393	<0.234
		07/27/23	0.51 J	<0.38	< 0.32	< 0.5	<0.15
		DUP 7/27	0.59 J	<0.33	< 0.32	< 0.5	<0.15
		10/17/24	0.51 J	<0.32	<0.47	<0.53	<0.17
		Dup 10/17	0.47 J	<0.32	<0.47	<0.53	<0.17

Notes:

µg/L = micrograms per liter

Samples analyzed using EPA SW-846 Method 8260

Bolded values are above detection limits

Bolded and orange shaded values are above Public Health Enforcement Standards

Bolded and blue shaded values are above Public Health Preventive Action Limits

Samples/constituents not shown are below laboratory reporting limits

bgs = below ground surface

J = Analyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit

NS= Not Sampled

NR= Not Reported

TABLE X
SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS - PFAS

Analytical Group			PFAS (ng/L) EPA Method 1633										
CAS Number			307-24-4	335-67-1	355-46-4	375-22-4	375-73-5	375-85-9	1763-23-1	2706-90-3	2706-91-4	27619-97-2	30334-69-1
Groundwater Sample Location	Date Sampled	Screen Interval (ft bgs)	PFHxA	PFOA	PFHxS	PFBA	PFBS	PFHpA	PFOS	PFPeA	PFPeS	FtS 6:2	PFBSA
Proposed Groundwater Enforcement Standard			150,000	20*	40	10,000	450,000	NE	20*	NE	NE	NE	450,000
Proposed Groundwater Preventative Action Limit			30,000	2*	4	2,000	90,000	NE	2*	NE	NE	NE	90,000
MW-1	10/16/2024	19-29	62	12	7.3	18	4.7	24	<1.9	45	1.2	<1.9	0.97
MW-1 Dup			46	16	8.6	15	4.2	21	2.6	35	1.1	<2	<1
MW-2	10/16/2024	14-24	12	<5	<5	<10	<5	<5	<10	7.2	<5	25	<5
MW-3	10/16/2024	20-30	59	14	5.0	13	2.9	9.7	5.9	17	<0.95	44	<0.95
EB-1	10/16/2024	--	<1.9	<0.94	<0.94	<1.9	<0.94	<0.94	<1.9	<0.94	<0.94	<19	<0.94
Field Blank	10/16/2024	--	<1.9	<0.97	<0.97	<1.9	<0.97	<0.97	<1.9	<0.97	<0.97	<1.9	<0.97

Notes:

All concentrations reported in units of nanograms per liter (ng/L)

Only detected compounds are listed

Bolded and blue shaded values are above proposed groundwater preventative action limits

Bolded and orange shaded values are above proposed groundwater enforcement standards

Bolded values are above detection limits

* Proposed groundwater standard applies to individual compound or combined PFOA and PFOS

J = Analyte concentration detected between the laboratory level of detection and the level of quantification

NE = Not Established