APPROXIMATE SITE BOUNDARY

ANALYTICAL KEY

PFOA =Perfluorooctanoic acid	PFHxS =Perfluorohexanesulphonic acid
PFOS =Perfluorooctane sulfonic aci	FOSA =Perfluorooctanesulfonamide

All concentrations reported in nonagrams per liter (parts per trillion, or ppt)

"J" = Analyte detected between Limit of Detection and Limit of Quantitation.

BOLD = Concentration exceeds recommended DHS ES

ITALICS = Concentration exceeds recommended DHS PAL

MW	SMW-3			
Date	1/9/20	4/14/20	5/26/20	1/11/24
PFOA	0.81 J	**26**	**28**	**32**
PFHxS	13 B	26 B	23 B	*24*
PFOS	<0.48	8.8	4.9	*9.6*
FOSA	*6.2*	*11 B*	*6.9B*	1.5 J

	SMW-104R			
Date	1/10/20	4/14/20	5/27/20	1/12/24
PFOA	**85**	**98**	**73**	*4.6*
PFHxS	**2600 B**	**3600 B**	**2500 B**	**150**
PFOS	**650**	**1100**	**790**	**79**
FOSA	*6.2*	*11 B*	*6.9B*	1.5 J

MW	SMW-4			
Date	1/9/20	4/13/20	5/26/20	1/11/24
PFOA	<0.77	1.5 J	*5.9*	*5.4*
PFHxS	0.37 JB	1.3 JB	3.1 B	3.1
PFOS	<0.49	<0.48	1.8	<0.47
FOSA	<0.32	<0.31	0.46 J B	<0.86

MW	SMW-5			
Date	1/9/20	4/13/20	5/26/20	1/11/24
PFOA	1.0 J	1.8	1.1 J	*2.4*
PFHxS	5.7 B	4.5 B	4.7 B	*7.8*
PFOS	*3.5 I*	*3.8*	*3.2*	*10*
FOSA	<0.32	0.65 JB	<0.31	<0.85

MW	SMW-6			
Date	1/9/20	4/14/20	5/26/20	1/11/24
PFOA	*7.6*	*5.2*	*4.3*	*5.9*
PFHxS	2.1 B	2.1 B	2.0B	*4.5*
PFOS	0.96 J	1.6 J	0.70J	1.2 J
FOSA	<0.31	0.40 JB	<0.31	<0.85

MW	SMW-8
Date	1/12/24
PFOA	*2.2*
PFHxS	1.4 J
PFOS	<0.46
FOSA	<0.84

MW	SMW-9
Date	1/12/24
PFOA	*2.1*
PFHxS	1.4 J
PFOS	<0.47
FOSA	<0.84

MW	MW-14	SMW-14R			
Date	3/29/19	1/10/20	4/14/20	5/27/20	1/12/24
PFOA	*6.4*	**44**	**29**	**23**	**28**
PFHxS	3.0 B	15 B	11 B	9.8B	*11*
PFOS	*3.7*	*5.1*	*7.2*	*6.2*	*5.1*
FOSA	<0.34	<0.32	0.40 J B	<0.31	<0.86

MW	SMW-2				
Date	3/29/19	1/9/20	4/13/20	5/27/20	1/11/24
PFOA	0.88 J	0.84 J	0.81 J	<0.76	<0.74
PFHxS	0.67 JB	0.60 JB	0.50 JB	0.28JB	0.57 J
PFOS	0.73 J	0.82 J	<0.49	<0.48	<0.47
FOSA	<0.35	<0.31	0.43 J B	0.78 J B	<0.85

LEGEND

- Monitoring Well
- Piezometer
- Approximate extent of groundwater impacts > WDHS recommended ES
- Approximate extent of groundwater impacts > WDHS recommended PAL

0 70 ft. 140 ft.

GRAPHIC SCALE

THE SIGMA GROUP — Single Source. Sound Solutions.

GROUNDWATER QUALITY MAP - PFAS

610 W. RAWSON AVE.
OAK CREEK, WI

FIGURE **3D**

Project: 16366 | Directory: CAD | Filename: Fig11_Conceptual_RAP.pdf | Created By: JJK | Date: 11/23/2020

Table 2
Groundwater Analytical Table(s)
610 W. Rawson Avenue, Oak Creek, Wisconsin
Sigma Project No. 16366

Well Location:		MW-14	SMW-14R					SMW-2					MW-27	TW-104	TW-104R	SMW-104R				SMW-3				SMW-4				SMW-5				SMW-6				SMW-8	SMW-9	NR 140 ES	NR 140 PAL	WDHS ES	WDHS PAL
Date:		3/29/19	1/10/20	4/14/20	5/27/20	1/12/24		3/29/19	1/9/20	4/13/20	5/27/20	1/11/24	3/29/19	3/29/19	5/1/19	1/10/20	4/14/20	5/27/20	1/12/24	1/9/20	4/14/20	5/26/20	1/11/24	1/9/20	4/13/20	5/26/20	1/11/24	1/9/20	4/13/20	5/26/20	1/11/24	1/9/20	4/14/20	5/26/20	1/11/24	1/12/24	1/12/24				
ter Elevation* (feet MSL):		705.31	723.57	724.77	724.95	723.50	DUP	NM	711.14	711.81	712.02	711.85	701.69	NM	NM	722.54	723.68	724.04	718.42	718.06	723.36	723.85	722.22	713.28	717.34	719.20	715.76	720.35	720.33	720.76	716.77	722.42	722.92	722.98	723.22	728.82	726.39				
PFAs																																									
PFBA	ng/L	12	74 B	76	58	55	62	13	11 B	8.6	11	5.3	14	150	41 B	700 B	940	740	270	67 B	130	120	96	7.7 B	14	26	21	13 B	14	11	8.5	<0.31	<0.33	<0.31	49	12	11	NS	NS	10,000	2,000
PFPeA	ng/L	<0.47	29	30	25	26	29	<0.48	4.2	3.6	3.6	1.7	<0.48	140	24	290	360	270	140	35	72	61	54	2.6	8.7	13	7.4	0.44 J	1.1 J	0.64J	<0.43	<0.44	53	41	33	2.2	2.7	NS	NS	NS	NS
PFHxA	ng/L	6.9	34	31	27	24	27	4.2	3.4	2.6	3.0	1.8	5.9	520	75	630	860	590	290	20	53	53	62	1.1 J	4.8	11	5.3	<0.52	0.77 J	<0.52	0.54 J	5.8	43	38	21	3.3	5.3	NS	NS	150,000	30,000
PFHpA	ng/L	3.9	13	12	12	10	11	<0.25	0.55 J	0.59 J	0.27J	0.35 J	2.2	27	5.8	59	71	54	5.3	4.0	23	24	25	0.33 J	2.0	7.1	4.2	<0.23	0.37 J	<0.22	<0.22	2.9	9.6	8.4	8.5	1.7	1.7	NS	NS	NS	NS
PFOA	ng/L	***6.4***	**44**	**29**	**23**	**28**	**25**	0.88 J	0.84 J	0.81 J	<0.76	<0.74	***3.0***	**67**	***7.0***	**85**	**98**	**73**	***4.6***	0.81 J	**26**	**28**	**32**	<0.77	1.5 J	***5.9***	***5.4***	1.0 J	1.8	1.1 J	***2.4***	***7.6***	***5.2***	***4.3***	***5.9***	***2.2***	***2.1***	NS	NS	20	2
PFNA	ng/L	1.5 J	0.82 J	1.1 J	0.84J	0.48 J	0.44 J	<0.27	<0.24	<0.24	<0.24	<0.23	<0.27	0.68 J	0.66 J	1.6 J	2.6	1.9	<0.23	<0.24	2.2	2.0	2.3	<0.24	<0.24	1J	0.68 J	<0.24	<0.25	<0.24	0.33 J	0.25 J	<0.25	<0.24	<0.23	<0.23	<0.23	NS	NS	30	3
PFDA	ng/L	<0.30	<0.28	<0.28	<0.27	<0.27	<0.27	<0.31	<0.27	<0.28	<0.28	<0.27	<0.31	<0.30	0.49 J	<0.27	<0.29	<0.27	<0.27	<0.28	<0.29	<0.28	<0.27	<0.28	<0.27	<0.27	<0.27	<0.28	<0.28	<0.28	<0.27	<0.28	<0.29	<0.27	<0.27	<0.27	<0.27	NS	NS	300	60
PFUnA	ng/L	<1.1	<0.99	<1.0	<0.97	<0.97	<0.97	<1.1	<0.96	<0.99	<0.98	<0.95	<1.1	<1.1	<1.0	<0.96	<1.0	<0.96	<0.94	<0.98	<1.0	<0.99	<0.94	<0.99	<0.97	<0.97	<0.97	<0.99	<1.0	<0.98	<0.96	<0.99	<1.0	<0.97	<0.95	<0.94	<0.95	NS	NS	3,000	600
PFDoA	ng/L	<0.53	<0.50	<0.50	<0.49	<0.48	<0.48	<0.54	<0.48	<0.50	<0.49	<0.48	<0.54	<0.54	<0.52	<0.48	<0.51	<0.48	<0.47	<0.49	<0.51	<0.50	<0.47	<0.50	<0.48	<0.49	<0.48	<0.50	<0.50	<0.49	<0.48	<0.49	<0.51	<0.48	<0.47	<0.47	<0.47	NS	NS	500	100
PFTriA	ng/L	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.3	<1.1	<1.2	<1.2	<1.1	<1.3	<1.3	<1.2	<1.1	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.1	<1.2	<1.1	<1.2	<1.1	<1.2	<1.2	<1.2	<1.1	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	NS	NS	NS	NS
PFTeA	ng/L	<0.28	<0.26	<0.26	<0.26	<0.64	<0.64	<0.29	<0.25	<0.26	<0.26	<0.63	<0.29	<0.28	<0.27	<0.25	<0.27	<0.25	<0.63	<0.26	<0.27	<0.26	<0.63	<0.26	<0.26	<0.26	<0.64	<0.26	<0.26	<0.26	<0.64	<0.26	<0.27	<0.25	<0.63	<0.63	<0.63	NS	NS	10,000	2,000
PFBS	ng/L	<0.19	<0.18	<0.18	<9.0	5.5	6.9	<0.20	1.1 J	<0.18	0.83J	1.4 J	<0.20	620	86	220	310	300	140	11	12	<9.0	12	<0.18	<0.18	1.56J	2.3	2.1	2.2	1.9	3.4	<0.18	6.3	<9.0	4.4	0.97 J	1.9	NS	NS	450,000	90,000
PFPeS	ng/L	<0.29	2.9	4.1	<3.6	3.7	4.8	<0.30	<0.26	<0.27	<0.27	<0.26	<0.30	880	53	300	530	450	340	7.1	5.4	4.8	4	<0.27	<0.26	0.69 J	0.59 J	1.1 J	0.61 J	0.83 J	1.7	<0.27	1.2 J	1.1J	1.4 J	0.64 J I	0.40 J	NS	NS	NS	NS
PFHxS	ng/L	3.0 B	***15 B***	***11 B***	***9.8B***	***11***	***11***	0.67 JB	0.60 JB	0.50 JB	0.28JB	0.57 J	1.7 J B	**4500 B**	**200 B**	**2600 B**	**3600 B**	**2500 B**	**150**	***13 B***	***26 B***	***23 B***	***24***	0.37 JB	1.3 JB	3.1 B	3.1	***5.7 B***	***4.5 B***	***4.7 B***	***7.8***	2.1 B	2.1 B	2.0B	***4.5***	1.4 J	1.4 J	NS	NS	40	4
PFHpS	ng/L	<0.18	0.37 J	<0.17	<0.17	<0.17	0.79 J	<0.19	<0.17	<0.17	<0.17	<0.16	<0.19	51	3.0	33	58	47	2.4	<0.17	<0.17	<0.17	<0.16	<0.17	<0.17	<0.17	<0.17	0.32 J	<0.17	<0.17	0.36 J	<0.17	<0.18	<0.17	<0.16	<0.16	<0.16	NS	NS	NS	NS
PFOS	ng/L	***3.7***	***5.1***	***7.2***	***6.2***	***5.1***	***5***	0.73 J	0.82 J	<0.49	<0.48	<0.47	1.2 J	**1500**	**79**	**650**	**1100**	**790**	**79**	<0.48	***8.8***	***4.9***	***9.6***	<0.49	<0.48	1.8	<0.47	***3.5 I***	***3.8***	***3.2***	***10***	0.96 J	1.6 J	0.70J	1.2 J	<0.46	<0.47	NS	NS	20	2
PFNS	ng/L	<0.15	<0.14	<0.15	<0.14	<0.33	<0.33	<0.16	<0.14	<0.14	<0.14	<0.32	<0.16	<0.16	<0.15	0.14 J	<0.15	<0.14	<0.32	<0.14	<0.15	<0.14	<0.32	<0.14	<0.14	<0.14	<0.33	<0.14	<0.15	<0.14	<0.32	<0.14	<0.15	<0.14	<0.32	<0.32	<0.32	NS	NS	NS	NS
PFDS	ng/L	<0.31	<0.29	<0.29	<0.28	<0.28	<0.28	<0.32	<0.28	<0.29	<0.29	<0.28	<0.32	<0.31	<0.30	<0.28	<0.30	<0.28	<0.27	<0.29	<0.29	<0.29	<0.27	<0.29	<0.28	<0.28	<0.28	<0.29	<0.29	<0.29	<0.28	<0.29	<0.30	<0.28	<0.28	<0.27	<0.28	NS	NS	NS	NS
FOSA	ng/L	<0.34	<0.32	0.40 J B	<0.31	<0.86	<0.86	<0.35	<0.31	0.43 J B	0.78 J B	<0.85	<0.35	<0.34	0.33 J	***6.2***	***11 B***	***6.9B***	1.5 J	6.2	11 B	6.9B	1.5 J	<0.32	<0.31	0.46 J B	<0.86	<0.32	0.65 JB	<0.31	<0.85	<0.31	0.40 JB	<0.31	<0.85	<0.84	<0.84	NS	NS	20	2
NMeFOSAA	ng/L	<3.0	<2.8	<2.8	<2.7	<1.1	<1.1	<3.1	<2.7	<2.8	<2.8	<1.0	<3.1	<3.0	<2.9	<2.7	<2.9	<2.8	<1.0	<2.8	<2.9	<2.8	<1.0	<2.8	<2.7	<2.7	<1.1	<2.8	<2.8	<2.8	<1.0	<2.8	<2.9	<2.7	<1.0	<1.0	<1.0	NS	NS	NS	NS
NEtFOSAA	ng/L	<1.8	<1.7	<1.7	<1.7	<1.1	<1.1	<1.9	<1.7	<1.7	<1.7	<1.1	<1.9	<1.9	<1.8	<1.7	<1.8	<1.7	<1.1	<1.7	<1.7	<1.7	<1.1	<1.7	<1.7	<1.7	<1.1	<1.7	<1.7	<1.7	<1.1	<1.7	<1.8	<1.7	<1.1	<1.1	<1.1	NS	NS	20	2
4:2 FTS	ng/L	<5.0	<4.7	<4.7	<4.6	<0.21	<0.21	<5.1	<4.5	<4.7	<4.7	<0.21	<5.1	<5.1	<4.9	<4.6	<4.8	<4.7	<0.21	<4.7	<4.8	<4.7	<0.21	<4.7	<4.6	<4.6	<0.21	<4.7	<4.7	<4.6	<0.21	<4.7	<4.9	<4.6	<0.21	<0.21	<0.21	NS	NS	NS	NS
6:2 FTS	ng/L	2.5 J	<1.8	<1.8	<1.8	<2.2	<2.2	<2.0	<1.7	<1.8	<1.8	<2.2	<2.0	<2.0	<1.9	3.7 J	4.2 J	3.2J	<2.1	<1.8	<1.8	<1.8	<2.1	<1.8	<1.8	1.9J	<2.2	<1.8	2.3 J	<1.8	<2.2	<1.8	<1.9	<1.8	<2.2	<2.1	<2.2	NS	NS	NS	NS
8:2 FTS	ng/L	<1.9	<1.8	<1.8	<1.8	<0.40	<0.41	<2.0	<1.7	<1.8	<1.8	<0.40	<2.0	<2.0	<1.9	<1.8	<1.9	<1.8	<0.40	<1.8	<1.8	<1.8	<0.39	<1.8	<1.8	<1.8	<0.40	<1.8	<1.8	<1.8	<0.40	<1.8	<1.9	<1.8	<0.40	<0.39	<0.40	NS	NS	NS	NS
PFHxDA	ng/L	NA	NA	NA	NA	NA	<0.78	NA	NA	NA	NA	<0.77	NA	NA	NA	NA	NA	NA	<0.76	NA	NA	NA	<0.76	NA	NA	NA	<0.78	NA	NA	NA	<0.77	NA	NA	NA	<0.77	<0.76	<0.77	NS	NS	NS	NS
PFODA	ng/L	NA	NA	NA	NA	NA	<0.83	NA	NA	NA	NA	<0.82	NA	NA	NA	NA	NA	NA	<0.81	NA	NA	NA	<0.81	NA	NA	NA	<0.83	NA	NA	NA	<0.82	NA	NA	NA	<0.81	<0.81	<0.81	NS	NS	400,000	80,000
PFDoS	ng/L	NA	NA	NA	NA	NA	<0.85	NA	NA	NA	NA	<0.84	NA	NA	NA	NA	NA	NA	<0.83	NA	NA	NA	<0.83	NA	NA	NA	<0.85	NA	NA	NA	<0.84	NA	NA	NA	<0.84	<0.83	<0.84	NS	NS	NS	NS
NMeFOSA	ng/L	NA	NA	NA	NA	NA	<0.77	NA	NA	NA	NA	<0.75	NA	NA	NA	NA	NA	NA	<0.75	NA	NA	NA	<0.75	NA	NA	NA	<0.77	NA	NA	NA	<0.76	NA	NA	NA	<0.75	<0.75	<0.75	NS	NS	NS	NS
NEtFOSA	ng/L	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	<0.37	NA	NA	NA	NA	NA	NA	<0.37	NA	NA	NA	<0.37	NA	NA	NA	<0.38	NA	NA	NA	<0.37	NA	NA	NA	<0.37	<0.37	<0.37	NS	NS	20	2
NMeFOSE	ng/L	NA	NA	NA	NA	<1.2	<1.2	NA	NA	NA	NA	<1.2	NA	NA	NA	NA	NA	NA	<1.2	NA	NA	NA	<1.2	NA	NA	NA	<1.2	NA	NA	NA	<1.2	NA	NA	NA	<1.2	<1.2	<1.2	NS	NS	NS	NS
NEtFOSE	ng/L	NA	NA	NA	NA	1.1 J	<0.75	NA	NA	NA	NA	<0.74	NA	NA	NA	NA	NA	NA	<0.73	NA	NA	NA	<0.73	NA	NA	NA	<0.75	NA	NA	NA	<0.74	NA	NA	NA	<0.73	<0.73	<0.73	NS	NS	20	2
10:2 FTS	ng/L	NA	NA	NA	NA	<0.59	<0.59	NA	NA	NA	NA	<0.58	NA	NA	NA	NA	NA	NA	<0.58	NA	NA	NA	<0.57	NA	NA	NA	<0.59	NA	NA	NA	<0.58	NA	NA	NA	<0.58	<0.57	<0.58	NS	NS	NS	NS
ADONA	ng/L	NA	NA	NA	NA	<0.35	<0.35	NA	NA	NA	NA	<0.35	NA	NA	NA	NA	NA	NA	<0.34	NA	NA	NA	<0.34	NA	NA	NA	<0.35	NA	NA	NA	<0.35	NA	NA	NA	<0.35	<0.34	<0.34	NS	NS	3,000	600
HFPO-DA (GenX)	ng/L	NA	NA	NA	NA	<1.3	<1.3	NA	NA	NA	NA	<1.3	NA	NA	NA	NA	NA	NA	<1.3	NA	NA	NA	<1.3	NA	NA	NA	<1.3	NA	NA	NA	<1.3	NA	NA	NA	<1.3	<1.3	<1.3	NS	NS	300	30
F-53B Major	ng/L	NA	NA	NA	NA	<0.21	<0.21	NA	NA	NA	NA	<0.21	NA	NA	NA	NA	NA	NA	<0.21	NA	NA	NA	<0.21	NA	NA	NA	<0.21	NA	NA	NA	<0.21	NA	NA	NA	<0.21	<0.21	<0.21	NS	NS	NS	NS
F-53B Minor	ng/L	NA	NA	NA	NA	<0.28	<0.28	NA	NA	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.27	NA	NA	NA	<0.27	NA	NA	NA	<0.28	NA	NA	NA	<0.28	NA	NA	NA	<0.28	<0.27	<0.28	NS	NS	NS	NS

Notes:
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
3. DHS ES = Groundwater Enforcement Standard recommendation (by Wisconsin Department of Health Services; Cycle 10 in June 2019 or Cycle 11 in November 2020)
4. DHS PAL = Groundwater Preventative Action Limit recommendation (by Wisconsin Department of Health Services; Cycle 10 in June 2019 or Cycle 11 in November 2020)
5. NS = no standard; NA = not analyzed
6. ng/L = nanograms per liter (equivalent to parts per trillion, ppt)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation.
"B" = Compound was found in the blank and sample.
10. Special notes: * = monitoring well screen submerged below water table
11. Exceedances: **BOLD**
ITALICS
** = not an NR 140 ES or PAL exceedance per NR 140.14(3)(c)

Table 3
Soil Analytical Results Table(s)
610 W. Rawson Avenue & 7045 N. 6th Street, Oak Creek, Wisconsin
Sigma Project No. 16366

Soil Sample Location:		TS-1	TS-2	TS-3	TS-4	TS-5	TS-6	TS-7	TS-8	TS-9	TS-10	TS-11	TS-12	Groundwater Pathway RCL [4]	Non-Industrial Direct Contact RCL [5]	Industrial Direct Contact RCL [6]	Background Threshold Value [7]
Sample Depth (feet bgs):		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Sample Collection Date:		10/18/19	10/18/19	10/18/19	10/18/19	10/18/19	10/18/19	10/18/19	10/18/19	10/18/19	10/18/19	10/18/19	10/18/19				
PAHs																	
Acenaphthene	mg/kg	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	<0.0163	NS	3,590	45,200	NS
Acenaphthylene	mg/kg	<0.0086	<0.0086	0.0159 J	0.0086 J	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	NS	NS	NS	NS
Anthracene	mg/kg	0.0177	0.0241	0.046	0.069	0.0158	0.0055 J	<0.0043	<0.0043	<0.0043	<0.0043	0.0064 J	<0.0043	196.9492	17,900	100,000	NS
Benzo(a)anthracene	mg/kg	0.065	0.079	0.138	0.253	0.055	0.0232 J	<0.016	<0.016	0.0184 J	<0.016	0.0278 J	<0.016	NS	1.14	20.8	NS
Benzo(a)pyrene	mg/kg	0.072	0.094	[0.157]	[0.247]	0.057	0.0212 J	<0.0124	<0.0124	0.0127 J	<0.0124	0.0227 J	<0.0124	0.47	0.115	2.11	NS
Benzo(b)fluoranthene	mg/kg	0.123	0.171	0.248	0.37	0.111	0.051	0.0175 J	0.0243 J	0.037	0.0228 J	0.057	0.0173 J	0.4793	1.15	21.1	NS
Benzo(ghi)perylene	mg/kg	0.057	0.095	0.15	0.158	0.055	0.0224 J	<0.0084	0.0125 J	0.0176 J	0.0101 J	0.0262 J	<0.0084	NS	NS	NS	NS
Benzo(k)fluoranthene	mg/kg	0.036	0.063	0.088	0.13	0.051	0.0225 J	0.0103 J	0.0112 J	0.0164 J	0.0093 J	0.0263 J	<0.0091	NS	11.5	211	NS
Chrysene	mg/kg	0.075	0.108	**0.158**	**0.277**	0.079	0.037	0.0132 J	0.0189 J	0.025	0.016 J	0.045	0.0139 J	0.1446	115	2,110	NS
Dibenzo(a,h)anthracene	mg/kg	0.0112 J	0.0152 J	0.0249 J	0.0309 J	0.0105 J	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	NS	0.115	2.11	NS
Fluoranthene	mg/kg	0.161	0.196	0.3	0.61	0.149	0.062	0.0226	0.033	0.044	0.0272	0.069	0.0214	88.8778	2,390	30,100	NS
Fluorene	mg/kg	<0.0086	<0.0086	<0.0086	0.0148 J	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	14.8299	2,390	30,100	NS
Indeno(1,2,3-cd)pyrene	mg/kg	0.044	0.061	0.097	0.119	0.038	0.0173 J	<0.0082	<0.0082	0.0116 J	<0.0082	0.0186 J	<0.0082	NS	1.15	21.1	NS
1-Methylnaphthalene	mg/kg	<0.0086	0.0099 J	0.07	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	NS	17.6	72.7	NS
2-Methylnaphthalene	mg/kg	<0.0147	<0.0147	0.051	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	<0.0147	NS	239	3,010	NS
Naphthalene	mg/kg	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	<0.0153	0.6582	5.52	24.1	NS
Phenanthrene	mg/kg	0.043	0.063	0.129	0.229	0.077	0.0232 J	0.0092 J	0.0139 J	0.0239 J	0.0134 J	0.0264	0.0101 J	NS	NS	NS	NS
Pyrene	mg/kg	0.132	0.169	0.281	0.53	0.14	0.052	0.0182 J	0.0267	0.041	0.0237	0.059	0.0172 J	54.5455	1,790	22,600	NS
cPAH RCL Exceedes (Y/N)?		N	N	N	N	N	N	N	N	N	N	N	N				

Notes:

1. Unsaturated/smear zone versus satured soil conditions based on: (1) measured water levels in adjacent/nearby monitoring wells, or (2) soil moisture conditions recorded on soil boring logs during drilling.
2. Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
3. NA = not analyzed
4. Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated June 2018) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
5. Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated June 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
6. Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated June 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
7. Background Threshold Value = Non-outlier trace element maximum levels in Wisconsin surface soils from USGS report "Distribution and Variation of Arsenic in Wisconsin Surface Soils, With Data on Other Trace Elements" (revised February 2013).
8. NS = no standard established
9. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
10. Exceedances:
    - **BOLD** = Concentration exceeds Groundwater Pathway RCL
    - [ ] = Concentration exceeds Non-Industrial Direct Contact RCL (any depth)
    - { } = Concentration exceeds Industrial Direct Contact RCL (any depth)
    - * = Concentration exceeds RCL but is below Background Threshold Value or is Laboratory Artifact

Data entered / updated by: RJA Date: 6/11/2024
Data Checked by: SRM Date: 6/11/2024