Date: November 16, 2020

Via Email

Mr. Brian Farrier
U.S. EPA Region IV
Superfund Remedial Section C
61 Forsyth Street, S.W.
Atlanta, GA 30103-8960
farrier.brian@epa.gov

Subject: Monthly Progress Report for the Period **October 1, 2020 – October 31, 2020**
Armstrong World Industries Superfund Site Operable Unit 2, Macon, GA
Administrative Settlement Agreement and Order on Consent for RI/FS Docket Number: CERCLA-04-2018-3759

Dear Mr. Farrier:

This Monthly Progress Report is submitted on behalf of the Respondents[1] in satisfaction of the monthly progress reporting requirements under paragraph 50 of the USEPA Region 4 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigation/Feasibility Study, U.S. EPA Region 4, Docket No. CERCLA-04-2018-3759: Armstrong World Industries (AWI) Superfund Site, Operable Unit 2 (OU2), Macon, Macon-Bibb County, Georgia.

Activities Conducted October 1, 2020 through October 31, 2020

- Continued with the field work outlined in the ecological Study Design. The field work includes terrestrial food/prey item collection, aquatic food/prey item collection, soil and sediment sampling, benthic macroinvertebrate community assessment, surface water sampling and pore water sampling.
- Validated data for fish tissue (original RI/FS scope) and validated data from the RI/FS Work Plan Addendum (groundwater and soil) were entered into the EPS site specific database.

Activities Planned for November and December 2020

- Complete field work associated with the ecological Study Design.
- Continue evaluation of the site characterization investigation data.
- Continue work on the Site Characterization Summary Report and associated human health memoranda.

[1] Those parties listed in Appendix C of the of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study, U.S. EPA Region 4, Docket No. CERCLA-04-2018-3759.

Joseph Nicolette
Environmental Planning Specialists, Inc., an affiliate of Montrose Environmental Group
400 Northridge Road
Suite 400
Sandy Springs, Georgia 30350
Direct Phone: 678-336-8554

Problems Encountered

- None

Validated Results of Sampling and All Other Data Obtained through Field Work

- Validata, LLC performed a Stage 3 Manual Validation of the analytical results for groundwater and soil data collected per the RI/FS Work Plan Addendum. No results were rejected. The validated data were uploaded into EPA Region 4's EQuIS database.
- The locations of the newly installed monitoring wells are shown on Figure 1. The validated results for groundwater are provided in Table 1.
- The locations of the soil incremental sampling methodology (ISM) decision units are shown on Figure 2. The validated soil results for these units are provided in Table 2.

Additional Items

- None

Should you have any questions or comments regarding this progress report or any other aspect of this project, please do not hesitate to contact me.

Sincerely,

Joseph Nicolette
Project Coordinator
Environmental Planning Specialists, Inc., an affiliate of Montrose Environmental Group

Attachments:

Table 1	Results of RI/FS Work Plan Addendum Groundwater Sampling
Table 2	Results of RI/FS Work Plan Addendum Soil Sampling
Figure 1	Locations of New Monitoring Wells
Figure 2	Locations of Soil Decision Units

cc:

Sharon Priyadarshini: GA Dept of Natural Resources (via email to Sharon.Priyadarshini1@dnr.ga.gov)
Timmerly Bullman (via email to tbullman@montrose-env.com)
Kirk Kessler (via email to kkessler@montrose-env.com)
John Ackiewicz (via email to jaackiewicz@armstrongceilings.com)
Joe Davis (via email to jadavis@armstrongceilings.com)

Melinda Morrison, Esq. (via email to mlrmorrison@armstrongceilings.com)
Bonnie A. Barnett, Esq. (via email to bonnie.barnett@dbr.com)
Nicole Josko, Esq. (via email to nicole.josko@dbr.com)
Rebecca Davis, Esq. (via email to rdavis@seyfarth.com)
Virgil L. Adams, Esq. (via email to vadams@adamsjordan.com)
Prashant Gupta (via email to prashant.gupta@honeywell.com)
Dawn Lamparello, Esq. (via email to dawn.lamparello@klgates.com)
Brett Marston, Esq. (via email to brett.marston@arnoldporter.com)
Bart Seitz, Esq. (via email to bart.seitz@bakerbotts.com)
Henk Van Der Meyden (via email to henk.vandermeyden@howmet.com)
Patrick Cook (via email to Patrick.Cook@howmet.com)
Max Wilson (via email to john.m.wilson@usace.army.mil)
E.J. Colbert (via email to eldries.j.colbert@usace.army.mil)
Mark Wyzalek (via email to mwyzalek@maconwater.org)
Cathy Nolan (via email to cathy.nolan@klgates.com)
Audrey Waldock (via email to Audrey.Waldock@howmet.com)
Emily Lewis (via email to Emily.Lewis@howmet.com)

Table 1. Results of RI/FS Work Plan Addendum Groundwater Sampling

Parameter	Units	MW-100	MW-100 (Dup)	MW-101	MW-102
1,1-Dichloroethene	µg/L	0.14	0.17	<0.08 U	<0.08 U
Carbon tetrachloride	µg/L	<0.096 U	<0.096 U	0.65	4.6
cis-1,2-Dichloroethene	µg/L	2.3	2.1	0.2	2.5
Trichloroethene	µg/L	94	91	12	100
Vinyl chloride	µg/L	<0.075 U	<0.075 U	<0.075U	<0.075 U

Table 2. Results of RI/FS Work Plan Addendum Soil Sampling

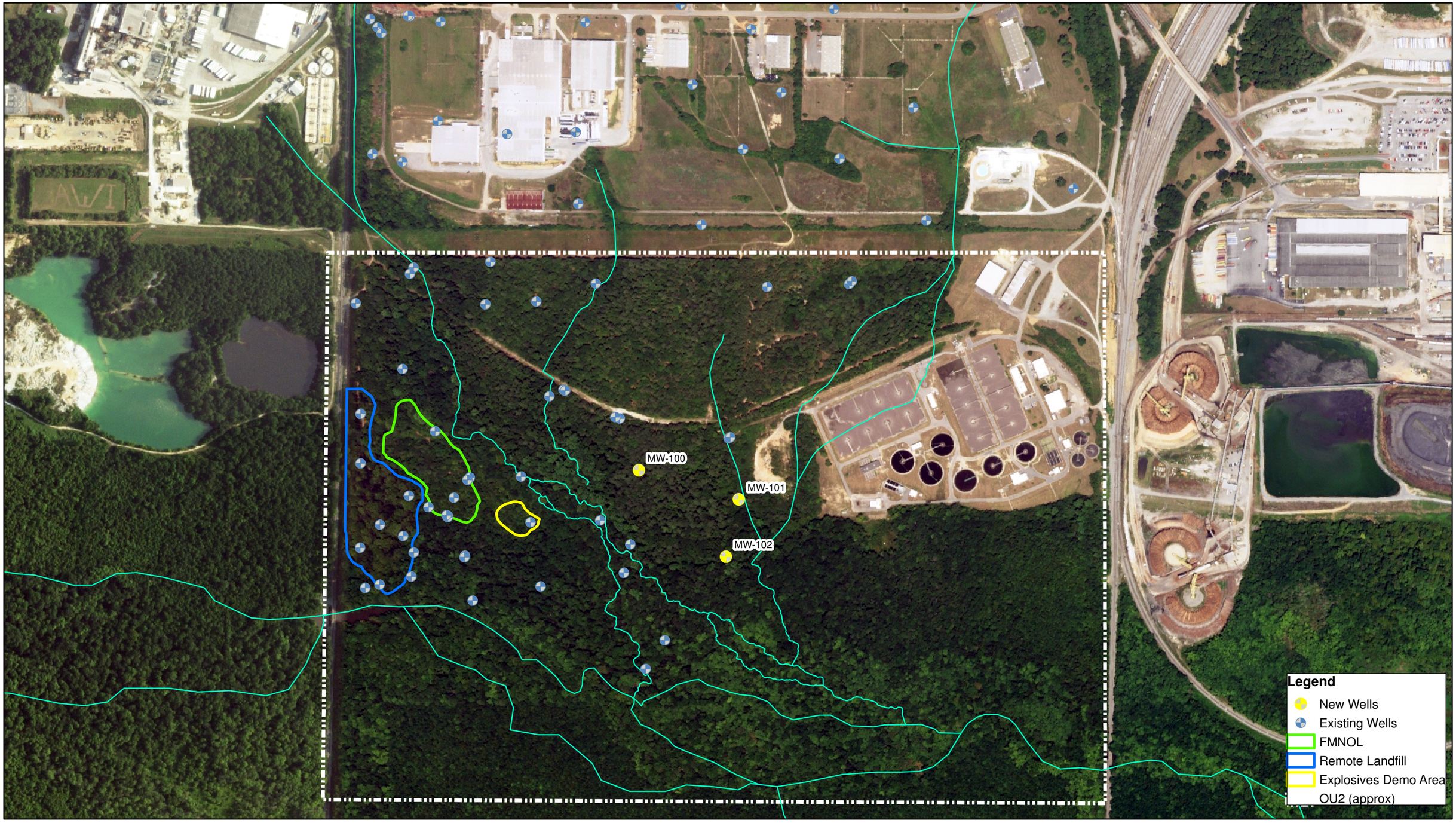
Parameter	SU-19-SO			SU-20-SO			SU-21-SO			SU-22-SO		
	Rep 1 µg/kg	Rep 2 µg/kg	Rep 3 µg/kg	Rep 1 µg/kg	Rep 2 µg/kg	Rep 3 µg/kg	Rep 1 µg/kg	Rep 2 µg/kg	Rep 3 µg/kg	Rep 1 µg/kg	Rep 2 µg/kg	Rep 3 µg/kg
Metal												
Cadmium	830	900	760	8630	9530	9380	15000	12500	13400	1920	2860	1600
PAHs												
2-Methylnaphthalene	3.1 J	4.3 J	3.1 J	17 J	23 J	27 J	31 J	29 J	40 J	13 J	8.3 J	15 J
Acenaphthene	2.7 J	2.9 J	2.8 J	9.4 J	13 J	14 J	36 J	26 J	41 J	8.5 J	9.5 J	2.3 J
Acenaphthylene	3.7 J	5.4 J	3.6 J	7.5 J	10 J	12 J	41 J	41 J	43 J	12 J	21 J	15 J
Anthracene	9.2 J	14 J	13 J	68 J	78 J	84 J	150 J	130 J	170 J	28 J	57 J	17 J
Benzo(a)anthracene	150 J	220 J	240 J	1000 J	1200 J	1300 J	1000 J	870 J	950 J	180 J	230 J	130 J
Benzo(a)pyrene	400 J	610 J	650 J	3100 J	3500 J	4200 J	2400 J	2100 J	2200 J	350 J	410 J	300 J
Benzo(b)fluoranthene	150 J	210 J	210 J	910 J	1000 J	1300 J	1000 J	900 J	950 J	340 J	400 J	230 J
Benzo(g,h,i)perylene	570 J	850 J	900 J	4500 J	5000 J	6200 J	3800 J	3300 J	3600 J	440 J	560 J	430 J
Benzo(k)fluoranthene	26 J	38 J	36 J	150 J	180 J	260 J	160 J	130 J	150 J	97 J	120 J	62 J
Chrysene	260 J	400 J	420 J	1800 J	2100 J	2100 J	1500 J	1300 J	1300 J	240 J	320 J	210 J
Dibenzo(a,h)anthracene	66 J	100 J	110 J	550 J	610 J	750 J	520 J	450 J	480 J	68 J	96 J	73 J
Dibenzofuran	<3.4 UJ	<3.5 UJ	<3.3 J	5.3 J	10 J	11 J	42 J	39 J	50 J	8.2 J	8.1 J	6.8 J
Fluoranthene	44 J	59 J	49 J	190 J	210 J	220 J	540 J	440 J	570 J	270 J	320 J	130 J
Fluorene	<3.2 UJ	4.1 J	3.2 UJ	15 J	19 J	20 J	42 J	31 J	51 J	6.6 J	8.2 J	2.2 UJ
Indeno(1,2,3-cd)pyrene	150 J	230 J	240 J	1100 J	1300 J	1300 J	850 J	730 J	780 J	230 J	340 J	210 J
Naphthalene	<2.7 UJ	4.2 J	<2.6 UJ	9.5 J	22 J	26 J	50 J	44 J	65 J	8.1 J	6.4 J	8.7 J
Phenanthrene	54 J	73 J	69 J	350 J	390 J	410 J	410 J	320 J	380 J	120 J	170 J	46 J
Pyrene	160 J	240 J	240 J	1000 J	1200 J	1300 J	980 J	800 J	900 J	330 J	370 J	160 J
PCBs												
Aroclor 1016	<33	<34	<31	<31	<180	<38	<42	<41	<37	<2.9	<2.9	<2.9
Aroclor 1221	<33	<34	<31	<31	<180	<38	<42	<41	<37	<2.9	<2.9	<2.9
Aroclor 1232	<33	<34	<31	<31	<180	<38	<42	<41	<37	<2.9	<2.9	<2.9
Aroclor 1242	<33	<34	<31	<31	<180	<38	<42	<41	<37	12	17	9 J
Aroclor 1248	870	750	2700	4100	7600	3900	2600	2200	2800	<2.9	<2.9	<2.9
Aroclor 1254	1300	1000	2400	5800	8000	5300	2900 J	3000	3700	77	120	71
Aroclor 1260	110	85	180	540	810	530	620	480	530	52	140	27
Aroclor 1262	<33	<34	<31	<31	<180	<38	<42	<41	<37	<2.9	<2.9	<2.9
Aroclor 1268	<33	<34	<31	<31	<180	<38	<42	<41	<37	<2.9	<2.9	<2.9
PCB Congener 1	<23	<23	<22	<22 UJ	<26 UJ	<27	<30	<28	<29	<21 UJ	<21	<21
PCB congener 101	56	48	180	370 J	740 J	590	260	250	320	4.4 J	7.9	2.8
PCB congener 105	36	31	110	260 J	300 J	330	150	120	150	3.7	5.1	2.9 J
PCB Congener 110	64	58	170	430 J	520 J	530	300	280	340	6.5	8.8	5.5
PCB congener 114	<1.3	<1.3	6.7	15 J	20 J	24	<1.7	<1.6	<3.8	<1.2	<1.2	<1.2
PCB congener 118	68	58	180	410 J	540 J	570	300	270	340	5.1	7.9	3.7

Table 2. Results of RI/FS Work Plan Addendum Soil Sampling

	SU-19-SO			SU-20-SO			SU-21-SO			SU-22-SO		
PCB Congener 119	2.8	<2.5	6.5	17 J	20 J	20	14 J	12	13 J	<1.6	<1.6	<1.6
PCB congener 123	8.9	7.7	22	63 J	<86 UJ	82	43 J	39 J	50 J	<1.2	<1.2	1.3
PCB congener 126	<1.8	<1.9	<2.2	<6.4 UJ	7.5 J	<9.3	<3.3	<2.3	<3	<1.7	<1.7	<1.7
PCB congener 128	4.8	5.2	14	40 J	49 J	55	35	30	39	2.5	4.3	<0.9
PCB Congener 132	<20	<17	<48	<150 UJ	<190 UJ	<200	<140	130	<160	<1.6	<4.8	<2.6
PCB congener 138	19	17	50	140 J	180 J	190	130	110	140	8.9 J	19	4.3
PCB Congener 141	<1.1	<1.1	6.9	24 J	28 J	30	16	<13	16	<0.96	1.2 J	<0.96
PCB Congener 149	11	<9.5	<30	88 J	<120 UJ	120	79	71	90	3.2	9.4	1.9
PCB Congener 151	<1.3	<1.3	<6.9	<24 UJ	<27 UJ	<31	<18	<23	<22	<1.2	2.2 J	<1.2
PCB congener 153	15 J	14	34 J	95 J	120 J	120 J	90 J	84 J	100 J	7 J	16	3.5
PCB congener 156	<2.6	2.1 J	6.3	17 J	24 J	26	17	14	16	<1.2	1.9 J	<1.2
PCB congener 157	<1.4	<1.4	<2.7	3.6 J	<1.7 UJ	7.6	<1.9	<1.8	<1.8	<1.3	<1.3	<1.3
PCB Congener 158	<1.9	<1.9	4.8	14 J	22 J	24	8.5 J	9.9	12 J	<0.73 UJ	1.7 J	<0.73
PCB Congener 166	<3.7	<3.3	<4.1	<12 UJ	<15 UJ	<16	<14	<13	<14	<1.4	<5.2	<1.4
PCB congener 167	<2.8	<3.6	<12	<44 UJ	<43 UJ	<61	<38	<35	<49	<3.4	<5.9	<1.6
PCB congener 168	<1.5	<1.5	<1.5	<1.5 UJ	<1.8 UJ	<1.8	<2	<1.9	<1.9	<1.4	<1.4	<1.4
PCB congener 169	<2.2	<2.2	<3.6	7.2 J	<2.5 UJ	<2.5	<2.8	<2.7	<2.8	<2 UJ	<2	<2
PCB congener 170	<2.3	<1.5	5.4	<31 UJ	49 J	53	28 J	25 J	43 J	2.5	6.7	<1.4
PCB Congener 174	<2.6	3.3 J	10	40 J	39 J	43	34	32	46	3 J	7.5	<1.1
PCB Congener 177	2.2	<1.8	5.2	20 J	23 J	26	20	16	20	<1.6	2.9 J	<1.6
PCB congener 18	<2.4	<2.4	<2.3	<2.3 UJ	<2.8 UJ	<2.8	<3.1	<3	<3	<2.2	<2.2	<2.2
PCB congener 180	5.8	<1.2	16	48 J	64 J	70	58	52	62	5.3	14	2.3
PCB Congener 183	<1.5	<1.5	<1.5	18 J	170 J	21	22 J	18 J	24 J	<1.4 UJ	1.7 J	<1.4
PCB Congener 184	<1.6	<1.7	<1.6	<1.6 UJ	<1.9 UJ	<1.9	<2.1	<2	<2.1	<1.5	<1.5	<1.5
PCB congener 187	4.6	5.1	11	35 J	42 J	44	34	27	36	3.3	<1.6	1.6 J
PCB Congener 189	<1.1	<1.1	<0.98	<0.97 UJ	<1.2 UJ	<1.2	<1.4	<1.3	<1.3	<0.95	<0.95	<0.95
PCB Congener 194	1.9	<2	4.4	11 J	15 J	17	12 J	12 J	14 J	<1.8	2.9	<1.8
PCB congener 195	<1.2	<1.2	<1.2	<4.4 UJ	<1.4 UJ	<5.1	<13	<14	<17	<1.1	1.2 J	<1.1
PCB Congener 201	<1.7	<1.8	<1.7	<1.7 UJ	<2 UJ	<2	<2.3	<2.2	<2.2	<1.6	<1.6	<1.6
PCB Congener 203	<1.4	<1.4	<3	16 J	22 J	25	11 J	<1.8	<6.4	<1.3	2.2 J	<1.3
PCB congener 206	<1.5	<1.5	<2.8	<8.7 UJ	9.2 J	12 J	14	6.9 J	10 J	<1.4	<1.4	<1.4
PCB congener 209	<2.4	<2.4	<2.3	<2.3 UJ	<2.8 UJ	<2.8	<3.1	<3	<3	<2.2	<2.2	<2.2
PCB congener 28	20	18	41	110 J	140 J	150	68	68	84	<2.2	<2.2	<2.2
PCB Congener 31	<18	<15	42 J	120 J	160 J	170	59 J	59 J	75 J	<0.98 UJ	<0.98	<0.98
PCB Congener 33	<7.7	<6.6	20 J	49 J	62 J	63 J	26 J	27 J	31 J	<2.6	<2.6	<2.6
PCB Congener 37	45 J	34 J	130 J	340 J	430 J	<35	180 J	180 J	240 J	2.7 J	<2.5	<1.7
PCB congener 44	42	35	140	260 J	390 J	360	170	170	230	2.5	3.5	2.3
PCB congener 49	59	47	150	350 J	500 J	480	230	230	300	2.9 J	3.6	2.2
PCB Congener 5	2.2	2 J	<0.95	<0.94 UJ	<1.2 UJ	<1.2	12	<1.3	<1.3	<0.92 UJ	<0.92	<0.92

Table 2. Results of RI/FS Work Plan Addendum Soil Sampling

	SU-19-SO			SU-20-SO			SU-21-SO			SU-22-SO		
PCB congener 52	73	59	200	410 J	760 J	740	270	270	360	3.7	5.4	<2
PCB Congener 56	49	40	170	390 J	520 J	500	200	200	250	<2.2	3.7	<1.2
PCB Congener 60	<50	<41	<160	<320 UJ	<420 UJ	<420	<200	<200	<250	<2	<2.3	<1.3
PCB congener 66	94	74	230	730 J	900 J	840	320	310	400	4.4	6.2	3.5
PCB Congener 70	91	77	240	740 J	910 J	860	290	290	370	3.6	5.4	2.6
PCB Congener 74	33 J	26 J	100 J	200 J	250 J	260 J	94 J	96 J	120 J	<1.8	2.8 J	<1.8
PCB congener 77	<32	<29	<120	<270 UJ	<390 UJ	<370	<160	<160	<190	<2 UJ	<2	<2
PCB Congener 8	<3.1	<3.2	<3	<14 UJ	<3.6 UJ	<3.6	11 J	11 J	10 J	<2.9	<2.9	<2.9
PCB congener 81	<61	<56	<200	<440 UJ	<680 UJ	<580	<310	<290	<350	<12 UJ	<16	<7.5
PCB Congener 87	26	24	83	180 J	240 J	250	120	120	140	2.5 J	3.8 J	2.4 J
PCB Congener 90	<1.9	<2	<1.9	<1.9 UJ	<2.3 UJ	<430	<2.6	<2.4	<2.5	<5	<7	<3.3
PCB Congener 95	<75	<61	<220	<430 UJ	<710 UJ	<570	<270	<270	<330	6.4 J	<7.7	3.2 J
PCB Congener 97	18	15	<6.3	140 J	200 J	200	<8.3	94	120	1.5	1.5	<0.93
PCB Congener 99	35	30	94	240 J	300 J	300	190	170	210	3.1	4.6	<2.8



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Locations of New Monitoing Wells

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Figure No. 1

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Locations of Soil Decision Units

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Figure No. 2