Mayflower Pipeline Incident
ExxonMobil Pipeline Company
Mayflower, Arkansas

Downstream Area Soil
DA Drainage Way

ARCADIS

Location		SO-DA-001	SO-DA-001	SO-DA-001	SO-DA-002	SO-DA-002	SO-DA-002	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Sample ID		SO-DA-001(0.0-0.5)	SO-DA-001(0.5-1.0)	SO-DA-001(1.0-1.5)	SO-DA-002(0.0-0.5)	SO-DA-002(0.5-1.0)	SO-DA-002(1.0-1.5)	SO-DA-003(0.0-0.5)	SO-DA-DUP-06-081313FD	SO-DA-003(0.5-1.0)	SO-DA-003(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Grain Size											
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA
Sieve 0.75 inch, % passing	% passing	95.8	NA	NA	100	NA	NA	100	NA	NA	NA
Sieve, 4750 micron, % passing	% passing	92.2	NA	NA	95.9	NA	NA	96.5	NA	NA	NA
Sieve, 3350 micron, % passing	% passing	91.4	NA	NA	94.6	NA	NA	95.2	NA	NA	NA
Sieve, 2360 micron, % passing	% passing	90.8	NA	NA	93.7	NA	NA	94.2	NA	NA	NA
Sieve, 1180 micron, % passing	% passing	90.1	NA	NA	92.9	NA	NA	93.1	NA	NA	NA
Sieve, 600 micron, % passing	% passing	88.5	NA	NA	89.0	NA	NA	90.3	NA	NA	NA
Sieve, 300 micron, % passing	% passing	86.3	NA	NA	81.7	NA	NA	86.2	NA	NA	NA
Sieve, 150 micron, % passing	% passing	80.3	NA	NA	69.3	NA	NA	71.4	NA	NA	NA
Sieve, 75 micron, % passing	% passing	70.2	NA	NA	58.3	NA	NA	58.0	NA	NA	NA
Sieve, 64 micron, % passing	% passing	66.5	NA	NA	56.0	NA	NA	54.0	NA	NA	NA
Sieve, 50 micron, % passing	% passing	60.0	NA	NA	49.5	NA	NA	48.0	NA	NA	NA
Sieve, 20 micron, % passing	% passing	36.0	NA	NA	36.0	NA	NA	35.0	NA	NA	NA
Sieve, 5 micron, % passing	% passing	15.0	NA	NA	19.5	NA	NA	12.5	NA	NA	NA
Sieve, 2 micron, % passing	% passing	9.5	NA	NA	15.0	NA	NA	8.5	NA	NA	NA
Sieve, 1 micron, % passing	% passing	8.0	NA	NA	12.0	NA	NA	8.0	NA	NA	NA
Metals											
Arsenic	mg/kg	7.51	6.92	13.7	7.17	7.99	7.36	4.01	3.61	4.84	4.48
Barium	mg/kg	91.9	80.5	75.8	55.5	69.2	85.9	65.4	61.6	68.4	65.8
Cadmium	mg/kg	0.221 J	0.187 J	< 0.547 U	0.183 J	< 0.575 U	0.265 J	0.192 J	0.209 J	0.353 J	0.356 J
Chromium	mg/kg	26.0 J	26.8 J	36.1 J	23.0 J	24.7 J	21.2 J	12.6 J	13.1 J	16.8 J	17.2 J
Lead	mg/kg	16.3	19.3	18.6	13.9	17.8	25.6	9.86	11.2	28.9	13.5
Mercury	mg/kg	0.0482 J	0.0504 J	0.0352 J	0.0187 J	0.0332 J	0.0585 J	0.0153 J	0.0161 J	0.0261 J	0.0158 J
Nickel	mg/kg	12.3	12.8	9.62	9.96	16.9	16.8	9.09	10.4	11.1	9.87
Selenium	mg/kg	1.40 J	1.59 J	3.40	1.66 J	2.26 J	1.62 J	< 2.53 U	< 2.40 U	< 2.37 U	< 2.40 U
Silver	mg/kg	0.279 J	0.201 J	0.643	< 0.630 U	0.328 J	< 0.672 U	< 0.632 U	< 0.599 U	< 0.592 U	< 0.600 U
Vanadium	mg/kg	26.7	25.8	30.6	32.8	32.6	25.9	18.1	18.5	24.3	28.3
Other											
Black Carbon	%	< 0.2 U	NA	NA	< 0.18 U	NA	NA	< 0.19 U	< 0.18 U	NA	NA
Percent Moisture	%	19.4	19.1	9.5	23.0	15.6	27.1	21.7	19.8	17.2	16.6
Total Organic Carbon	%	2.04	NA	NA	1.27	NA	NA	2.12	2.18	NA	NA
Priority PAHs											
1-Methylnaphthalene	ug/kg	6.51	5.31	1.70	2.87	7.82	4.88	9.15	< 0.5 UJ	9.99	3.95
2-Methylnaphthalene	ug/kg	13.9	11.5	3.23	5.77	17.7	8.44	22.9	23.7	17.6	7.63
Acenaphthene	ug/kg	0.563	< 0.1 U	< 0.1 U	0.482	1.79	0.990	< 0.5 U	0.930	9.50	0.321
Acenaphthylene	ug/kg	1.19	0.621	< 0 U	0.504	1.17	1.27	< 0.2 U	2.80 J	3.41	0.310
Anthracene	ug/kg	1.29	0.443	0.218	0.674	0.681	1.55	1.84	4.80 J	17.2	< 0.1 U
Benzo(a)Anthracene	ug/kg	4.71	1.77	0.331	1.57	0.816	2.24	36.5	10.9 J	68.5	0.904
Benzo(a)Pyrene	ug/kg	2.31	1.04	0.106	0.849	0.598	2.66	43.7	23.9 J	37.9	0.496
Benzo(b)Fluoranthene	ug/kg	9.91	5.59	1.15	4.59	4.85	9.75	61.8	42.4	87.6	2.11
Benzo(g,h,i)Perylene	ug/kg	4.05	2.52	0.271	2.43	1.88	3.38	59.0	40.0	26.9	0.87
Benzo(j)+(k)Fluoranthene	ug/kg	3.02	1.40	0.167	1.20	0.701	1.48	26.0	12.3 J	42.8	0.611
Chrysene/Triphenylene	ug/kg	7.70	3.19	1.18	4.20	2.75	5.64	94.6	90.3	84.2	2.29
Dibenz(a,h)Anthracene	ug/kg	1.88	0.507	0.147	0.789	0.544	1.15	10.9	7.64	10.8	0.382
Fluoranthene	ug/kg	11.3 J	5.02 J	1.22 J	4.21	7.95 J	8.29 J	47.3	24.0 J	179	2.89
Fluorene	ug/kg	14.9	8.16	< 0.2 U	3.82	20.0	9.90	7.88	6.10	17.2	5.52
Indeno[1,2,3-cd]pyrene	ug/kg	4.25	2.86	0.453	2.69	1.42	1.68	26.4	14.0 J	30.4	0.705
Naphthalene	ug/kg	12.0	13.4	4.46	6.95	18.5	9.21	12.9	12.9	20.0	8.84
Phenanthrene	ug/kg	43.2	22.6	4.98	10.7	47.1	26.6	20.2	32.4	169	13.90
Pyrene	ug/kg	7.95	2.93	0.539	3.56	3.79	5.42	68.2 J	61.5	127 J	1.50 J

Location		SO-DA-001	SO-DA-001	SO-DA-001	SO-DA-002	SO-DA-002	SO-DA-002	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Sample ID		SO-DA-001(0.0-0.5)	SO-DA-001(0.5-1.0)	SO-DA-001(1.0-1.5)	SO-DA-002(0.0-0.5)	SO-DA-002(0.5-1.0)	SO-DA-002(1.0-1.5)	SO-DA-003(0.0-0.5)	SO-DA-DUP-06-081313FD	SO-DA-003(0.5-1.0)	SO-DA-003(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	5.74	3.27	0.619	2.60	2.49	4.53	77.9	57.3	45.4	1.53
C1-Chrysenes	ug/kg	7.18	3.51	< 0.2 U	4.12	2.12	4.39	168	210	38.3	3.05
C1-Fluoranthenes/Pyrenes	ug/kg	9.68	4.02	< 0.5 U	3.32	3.22	5.42	182	154	66.0	2.61
C1-Fluorenes	ug/kg	6.49	3.15	< 0.4 U	1.63	9.62	4.86	38.1	22.8	9.73	2.22
C1-Phenanthrenes/Anthracenes	ug/kg	15.9	10.1	5.79	8.44	16.4	13.9	114	112	60.8	6.46
C2-Chrysenes	ug/kg	6.39	< 0.2 U	< 0.2 U	3.40	< 0.2 U	< 0.2 U	235	253	26.2	3.13
C2-Fluorenes	ug/kg	10.9	< 0.4 U	< 0.4 U	2.20	< 0.4 U	< 0.4 U	< 1.8 U	74.8 J	13.6	< 0.4 U
C2-Naphthalenes	ug/kg	25.1	16.5	5.78	8.26	28.2	15.1	74.4	34.1 J	23.6	8.25
C2-Phenanthrenes/Anthracenes	ug/kg	13.1	10.2	< 0.3 U	7.36	12.8	13.3	290	369	39.3	6.84
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	2.76	< 0.2 U	< 0.2 U	183	157	15.6	1.91
C3-Fluorenes	ug/kg	13.5	< 0.4 U	< 0.4 U	3.36	< 0.4 U	< 0.4 U	< 1.8 U	226 J	14.3	< 0.4 U
C3-Naphthalenes	ug/kg	15.2	9.49	5.64	8.78	26.8	19.0	196	101 J	14.6	4.32
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	3.50	5.20	5.74	445	658	20.4	3.59
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	2.43	< 0.2 U	< 0.2 U	107	49.9 J	6.01	< 0.2 U
C4-Naphthalenes	ug/kg	52.2	< 0.7 U	< 0.7 U	7.18	11.2	15.2	350	110 J	19.0	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	2.99	< 0.3 U	< 0.3 U	430	400	23.7	2.95
Perylene	ug/kg	1.11 J	R	R	0.430 J	0.184 J	0.873 J	20.8	14.8	7.90 J	0.252 J
C1-Dibenzothiophenes	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	0.773	2.83	2.29	126	106	7.44	1.20
C1-Naphthalenes	ug/kg	13.1	10.8	3.15	5.57	16.4	8.51	21.2	15.3	18.2	7.64
C2-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	1.25	3.47	2.12	416	375	8.95	1.94
C2-Fluoranthenes/Pyrenes	ug/kg	12.5	6.39	< 0.5 U	3.55	3.97	7.35	318	271	71.0	4.86
C3-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	1.41	2.08	2.21	418	523	11.2	1.92
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	3.28	< 0.5 U	2.93	< 0.5 U	4.39	254	304	22.1	2.44
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	2.20	< 0.2 U	1.35	438	648	12.2	2.04
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	2.40	< 0.5 U	< 0.5 U	261	265	29.7	< 0.5 U
Dibenzothiophene	ug/kg	2.38	1.43	0.446	0.802	3.80	1.80	18.6	15.3	9.12	0.933
VOCs											
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 11 U	< 12 U	< 11 U	< 11 U	< 12 U	< 12 U	< 13 U	< 11 U	< 11 U	< 12 U
1,1-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
2-Butanone (MEK)	ug/kg	4 J	9 J	10 J	< 11 U	< 12 U	< 12 U	19	22	< 11 U	< 12 U
2-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U

Location		SO-DA-001	SO-DA-001	SO-DA-001	SO-DA-002	SO-DA-002	SO-DA-002	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Sample ID		SO-DA-001(0.0-0.5)	SO-DA-001(0.5-1.0)	SO-DA-001(1.0-1.5)	SO-DA-002(0.0-0.5)	SO-DA-002(0.5-1.0)	SO-DA-002(1.0-1.5)	SO-DA-003(0.0-0.5)	SO-DA-DUP-06-081313FD	SO-DA-003(0.5-1.0)	SO-DA-003(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
2-Phenylbutane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 11 U	< 12 U	< 11 U	< 11 U	< 12 U	< 12 U	< 13 U	< 11 U	< 11 U	< 12 U
Acetone	ug/kg	130	130	130	45	27	25	160	140	33	< 24 U
Allyl chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Benzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	0.7 J	0.7 J	< 5 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Chloroform	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	16	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	34	5 J	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Styrene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Toluene	ug/kg	2 J	2 J	< 5 U	< 6 U	< 6 U	< 6 U	1 J	1 J	< 5 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Trichloroethene	ug/kg	3 J	4 J	3 J	2 J	3 J	< 6 U	2 J	3 J	1 J	2 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U

Location		SO-DA-004	SO-DA-004	SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013
Sample ID		SO-DA-004(0.0-0.5)	SO-DA-004(0.5-1.0)	SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Grain Size											
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve 0.75 inch, % passing	% passing	98.5	NA	NA	100	NA	NA	100	NA	NA	100
Sieve, 4750 micron, % passing	% passing	86.5	NA	NA	98.5	NA	NA	96.9	NA	NA	99.2
Sieve, 3350 micron, % passing	% passing	83.8	NA	NA	98.2	NA	NA	96.3	NA	NA	98.5
Sieve, 2360 micron, % passing	% passing	80.8	NA	NA	97.9	NA	NA	95.6	NA	NA	97.2
Sieve, 1180 micron, % passing	% passing	78.3	NA	NA	97.6	NA	NA	94.0	NA	NA	92.1
Sieve, 600 micron, % passing	% passing	75.7	NA	NA	94.9	NA	NA	89.7	NA	NA	88.1
Sieve, 300 micron, % passing	% passing	73.4	NA	NA	92.3	NA	NA	86.7	NA	NA	86.0
Sieve, 150 micron, % passing	% passing	67.2	NA	NA	88.6	NA	NA	82.7	NA	NA	80.8
Sieve, 75 micron, % passing	% passing	59.3	NA	NA	83.4	NA	NA	76.9	NA	NA	71.9
Sieve, 64 micron, % passing	% passing	55.0	NA	NA	81.0	NA	NA	73.0	NA	NA	68.0
Sieve, 50 micron, % passing	% passing	47.0	NA	NA	74.0	NA	NA	65.0	NA	NA	61.0
Sieve, 20 micron, % passing	% passing	32.0	NA	NA	54.0	NA	NA	47.0	NA	NA	38.0
Sieve, 5 micron, % passing	% passing	16.0	NA	NA	35.5	NA	NA	32.0	NA	NA	18.0
Sieve, 2 micron, % passing	% passing	9.5	NA	NA	28.5	NA	NA	27.0	NA	NA	14.0
Sieve, 1 micron, % passing	% passing	7.0	NA	NA	25.0	NA	NA	26.0	NA	NA	11.0
Metals											
Arsenic	mg/kg	6.41	7.59	10.4	9.41	9.43	15.1	11.2	5.79	9.41	7.34
Barium	mg/kg	89.2	74.1	72.5	128	132	145	132	271	308	62.2
Cadmium	mg/kg	0.390 J	0.688	0.973	0.162 J	0.135 J	< 0.606 U	0.635	0.156 J	0.165 J	0.214 J
Chromium	mg/kg	19.2 J	26.9 J	30.6 J	27.5 J	30.7 J	45.8 J	31.6 J	31.3 J	34.0 J	19.1 J
Lead	mg/kg	27.2	27.4	39.2	24.2	89.6	37.1	162	11.0	13.5	10.5
Mercury	mg/kg	0.0252 J	0.0230 J	0.0188 J	0.0149 J	< 0.119 U	0.0201 J	0.0329 J	< 0.116 U	0.0138 J	0.0223 J
Nickel	mg/kg	18.4	9.38	11.8	17.7	19.5	20.5	17.1	30.6	64.6	9.82
Selenium	mg/kg	1.14 J	1.24 J	1.64 J	1.68 J	2.63	1.79 J	1.50 J	1.22 J	< 2.55 U	1.32 J
Silver	mg/kg	< 0.606 U	0.211 J	0.222 J	0.217 J	< 0.623 U	0.377 J	0.351 J	< 0.595 U	0.235 J	< 0.570 U
Vanadium	mg/kg	27.6	31.8	37.5	40.4	45.9	50.6	35.2	43.2	49.7	26.4
Other											
Black Carbon	%	0.31 J	NA	NA	0.2 J	NA	NA	0.22 J	NA	NA	< 0.2 U
Percent Moisture	%	20.6	18.5	18.3	16.7	20.6	21.4	19.5	20.0	22.4	13.1
Total Organic Carbon	%	2.98	NA	NA	1.35	NA	NA	0.83	NA	NA	0.28
Priority PAHs											
1-Methylnaphthalene	ug/kg	2.27	17.8	12.0	5.55	4.39	4.31	5.12	1.91	1.52	0.756
2-Methylnaphthalene	ug/kg	5.28	27.5	18.6	11.5	9.28	9.34	9.96	3.92	3.18	1.49
Acenaphthene	ug/kg	< 0.1 U	0.641	2.19	0.420	0.22	0.194	0.402	< 0.128 UB	0.209	0.180
Acenaphthylene	ug/kg	2.43	2.95	3.82	2.47	25.4	1.18	2.86	0.236	0.123	0.071
Anthracene	ug/kg	3.65	4.37	7.48	3.09	53.8	1.48	6.10	< 0.115 UB	< 0.115 UB	< 0.1 U
Benzo(a)Anthracene	ug/kg	9.69	8.50	22.9	15.2	66.4	1.53	5.91	0.115 J	0.090 J	< 0.2 U
Benzo(a)Pyrene	ug/kg	9.51	4.47	18.0	15.9	13.7	0.541	5.28	< 0.101 UB	< 0.101 UB	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	26.7	21.1	39.6	37.6	153	5.84	20.3	< 0.240 UB	< 0.203 UB	< 0.2 U
Benzo(g,h,i)Perylene	ug/kg	18.2	5.26	13.2	27.5	23.8	1.38	6.39	< 0.10 UB	< 0.088 UB	< 0.1 U
Benzo(j)+(k)Fluoranthene	ug/kg	9.16	7.06	17.7	13.4	54.5	1.69	6.87	< 0.098 UB	< 0.098 UB	< 0.1 U
Chrysene/Triphenylene	ug/kg	31.4	20.0	36.2	78.8	99.4	5.08	13.8	0.208	0.110 J	< 0.1 U
Dibenz(a,h)Anthracene	ug/kg	3.90	2.26	4.46	6.62	13.4	0.540	2.21	< 0.1 U	< 0.064 UB	< 0.1 U
Fluoranthene	ug/kg	12.6	18.7	53.4	22.0	61.1	7.14	10.2	0.928	0.740	< 0.3 U
Fluorene	ug/kg	2.53	9.83	6.96	4.49	12.9	14.6	12.3	3.92	4.50	3.04
Indeno[1,2,3-cd]pyrene	ug/kg	7.93	5.02	12.3	11.2	33.2	1.49	6.12	< 0.386 UB	< 0.172 UB	< 0.1 U
Naphthalene	ug/kg	3.34	27.7	21.8	8.30	8.38	8.59	8.74	4.19	3.26	1.37
Phenanthrene	ug/kg	7.32	48.7	58.6	21.6	27.5	32.4	30.2	7.56	7.24	7.37
Pyrene	ug/kg	21.7 J	11.1 J	39.0 J	45.5	45.6	2.65	8.91	< 0.322 UB	< 0.256 UB	< 0.1 U

Location		SO-DA-004	SO-DA-004	SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013
Sample ID		SO-DA-004(0.0-0.5)	SO-DA-004(0.5-1.0)	SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	27.0	12.1	21.5	34.6	60.1	2.66	10.7	< 0.177 UB	< 0.177 UB	< 0.2 U
C1-Chrysenes	ug/kg	70.3	19.7	23.2	184	37.2	2.85	13.0	0.211 J	0.111 J	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	85.1	17.2	27.6	111	21.9	1.83	8.59	0.325 J	0.167 J	< 0.5 U
C1-Fluorenes	ug/kg	12.1	5.67	4.72	13.0	4.68	4.92	4.85	1.44	1.60	1.05
C1-Phenanthrenes/Anthracenes	ug/kg	30.5	37.7	33.2	115	18.6	12.2	14.9	< 0.1 U	< 0.1 U	3.52
C2-Chrysenes	ug/kg	107	21.2	22.6	244	15.5	2.62	11.8	0.158 J	0.092 J	< 0.2 U
C2-Fluorenes	ug/kg	44.9	18.2	12.1	77.3	7.71	7.12	8.30	2.71	2.26	< 0.4 U
C2-Naphthalenes	ug/kg	10.8	42.5	29.0	20.8	12.9	13.5	17.9	5.72	4.95	2.92
C2-Phenanthrenes/Anthracenes	ug/kg	144	34.4	25.2	306	13.23	7.84	14.3	< 0.3 U	< 0.3 U	< 0.3 U
C3-Chrysenes	ug/kg	81.3	14.5	17.2	138	5.51	1.99	9.12	< 0.2 U	0.071 J	< 0.2 U
C3-Fluorenes	ug/kg	77.0	26.7	20.8	277	11.2	5.45	12.2	1.31	1.52	< 0.4 U
C3-Naphthalenes	ug/kg	35.5	28.8	21.5	53.5	7.59	8.95	12.3	6.31	5.80	2.42
C3-Phenanthrenes/Anthracenes	ug/kg	293	24.3	16.5	444	6.44	2.82	15.0	< 0.3 U	< 0.3 U	< 0.3 U
C4-Chrysenes	ug/kg	46.2	5.92	6.78	48.7	3.19	1.05	5.68	< 0.2 U	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	105	22.7	15.0	70.7	6.53	7.34	10.3	4.34	4.31	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	242	26.5	14.4	359	4.42	1.57	11.9	< 0.3 U	< 0.3 U	< 0.3 U
Perylene	ug/kg	5.12	0.737 J	4.30	7.14	2.45 J	< 1.27 UB	1.50 J	< 1.27 UB	< 1.27 UB	R
C1-Dibenzothiophenes	ug/kg	27.9	6.13	5.93	84.2	1.75	2.05	2.33	0.382	0.455	0.580
C1-Naphthalenes	ug/kg	4.99	29.8	20.1	11.0	8.80	8.79	9.70	3.76	3.02	1.21
C2-Dibenzothiophenes	ug/kg	150	7.34	6.46	368	2.36	2.13	4.71	0.570	0.594	0.582
C2-Fluoranthenes/Pyrenes	ug/kg	118	36.6	38.3	166	34.9	2.62	11.7	0.198 J	0.117 J	< 0.5 U
C3-Dibenzothiophenes	ug/kg	289	7.35	5.93	501	2.73	1.70	9.05	0.299	0.230 J	< 0.2 U
C3-Fluoranthenes/Pyrenes	ug/kg	102	22.0	21.5	199	21.0	1.86	10.3	0.138 J	< 0.5 U	< 0.5 U
C4-Dibenzothiophenes	ug/kg	324	6.81	5.64	365	2.10	1.24	10.7	0.137 J	0.162 J	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	122	32.5	31.2	237	17.4	1.57	8.81	0.114 J	< 0.5 U	< 0.5 U
Dibenzothiophene	ug/kg	4.14	4.18	4.79	7.70	1.34	1.36	1.92	0.554	0.713	0.528
VOCs											
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 11 U	< 12 U	< 10 U	< 11 U	< 12 U	< 12 U	< 12 U	< 12 U	< 11 U	< 10 U
1,1-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,1-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,1-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,3-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
1,4-Dichlorobenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
2,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
2-Butanone (MEK)	ug/kg	9 J	< 12 U	< 10 U	< 11 U	< 12 U	< 12 U	< 12 U	12 J	5 J	< 10 U
2-Chlorotoluene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U

Location		SO-DA-004	SO-DA-004	SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013
Sample ID		SO-DA-004(0.0-0.5)	SO-DA-004(0.5-1.0)	SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
2-Phenylbutane	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
4-Chlorotoluene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 11 U	< 12 U	< 10 U	< 11 U	< 12 U	< 12 U	< 12 U	< 12 U	< 11 U	< 10 U
Acetone	ug/kg	75	51	11 J	50	33	26	47	150	51	53
Allyl chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Benzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	0.6 J	< 5 U
Bromobenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Bromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Bromodichloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Bromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Carbon Tetrachloride	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Chlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Chloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Chloroform	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Chloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Dibromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Dibromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Dichlorofluoromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Ethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
n-Butylbenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
n-Propylbenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Styrene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Tert-Butylbenzene	ug/kg	< 5 UJ	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Tetrachloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Tetrahydrofuran	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Toluene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Trichloroethene	ug/kg	3 J	< 6 U	< 5 U	< 5 U	3 J	3 J	4 J	3 J	3 J	< 5 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Vinyl Chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U
Xylene (Total)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U

Location		SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008	SO-DA-008	SO-DA-009	SO-DA-009	SO-DA-009	SO-DA-010	SO-DA-010
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
Sample ID		SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)	SO-DA-008(1.0-1.5)	SO-DA-009(0.0-0.5)	SO-DA-009(0.5-1.0)	SO-DA-009(1.0-1.5)	SO-DA-010(0.0-0.5)	SO-DA-DUP-02-080213FD
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Grain Size											
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	99.9	NA	NA	99.1	NA	NA	100	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	99.8	NA	NA	97.9	NA	NA	99.9	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.5	NA	NA	95.9	NA	NA	99.7	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	99.1	NA	NA	94.5	NA	NA	99.5	NA
Sieve, 600 micron, % passing	% passing	NA	NA	96.5	NA	NA	92.6	NA	NA	98.4	NA
Sieve, 300 micron, % passing	% passing	NA	NA	94.0	NA	NA	91.0	NA	NA	96.8	NA
Sieve, 150 micron, % passing	% passing	NA	NA	89.5	NA	NA	84.9	NA	NA	94.4	NA
Sieve, 75 micron, % passing	% passing	NA	NA	83.3	NA	NA	76.3	NA	NA	90.2	NA
Sieve, 64 micron, % passing	% passing	NA	NA	80.0	NA	NA	73.0	NA	NA	86.0	NA
Sieve, 50 micron, % passing	% passing	NA	NA	73.0	NA	NA	67.0	NA	NA	79.0	NA
Sieve, 20 micron, % passing	% passing	NA	NA	51.0	NA	NA	43.0	NA	NA	56.0	NA
Sieve, 5 micron, % passing	% passing	NA	NA	23.0	NA	NA	19.0	NA	NA	24.0	NA
Sieve, 2 micron, % passing	% passing	NA	NA	17.0	NA	NA	13.0	NA	NA	17.0	NA
Sieve, 1 micron, % passing	% passing	NA	NA	11.0	NA	NA	9.5	NA	NA	11.0	NA
Metals											
Arsenic	mg/kg	4.06	3.20	4.13	4.69	5.48	3.53	4.66	3.50	4.09	5.92
Barium	mg/kg	43.7	48.0	57.8	50.0	54.3	73.2	60.5	47.5	94.7	92.2
Cadmium	mg/kg	0.101 J	0.104 J	0.143 J	0.149 J	0.188 J	0.0984 J	0.113 J	< 0.559 U	0.177 J	0.198 J
Chromium	mg/kg	11.6 J	13.7 J	12.6 J	13.6 J	18.9 J	12.9 J	14.4 J	17.0 J	13.6 J	21.4 J
Lead	mg/kg	8.26	9.52	10.6	12.3	13.3	12.6	14.3	16.6	12.5	11.5
Mercury	mg/kg	0.0187 J	0.0153 J	0.0178 J	0.0166 J	< 0.112 U	0.0288 J	0.0180 J	< 0.113 U	0.0299 J	0.0321 J
Nickel	mg/kg	7.37	8.80	8.23	9.64	10.6	8.58	7.57	8.69	10.9	8.94
Selenium	mg/kg	1.30 J	< 2.36 U	1.20 J	0.976 J	1.23 J	1.04 J	< 2.37 U	< 2.24 U	0.963 J	1.69 J
Silver	mg/kg	< 0.579 U	< 0.590 U	< 0.526 U	< 0.552 U	< 0.572 U	< 0.607 U	< 0.592 U	< 0.559 U	< 0.587 U	< 0.629 U
Vanadium	mg/kg	18.8	19.2	20.9	21.5	29.3	21.3	23.3	24.9	20.8	25.8
Other											
Black Carbon	%	NA	NA	< 0.18 U	NA	NA	< 0.19 U	NA	NA	< 0.2 U	< 0.2 U
Percent Moisture	%	15.4	16.1	5.9	12.9	13.5	18.5	16.4	13.2	16.5	23.6
Total Organic Carbon	%	NA	NA	0.35	NA	NA	0.83	NA	NA	3.25 J	1.82 J
Priority PAHs											
1-Methylnaphthalene	ug/kg	0.741	0.596	1.22	0.183 J	0.364 J	2.54	0.706	0.513 J	3.81	5.13
2-Methylnaphthalene	ug/kg	1.63	1.24 J	2.24	0.485 J	0.811 J	5.97	1.49	1.05 J	6.73 J	11.7 J
Acenaphthene	ug/kg	0.244	0.331	< 0.1 U	< 0.1 UJ	< 0.1 U	< 0.1 U	< 0.1 U	0.128	< 0.1 U	< 0.1 U
Acenaphthylene	ug/kg	0.090	0.060	1.12	< 0 UJ	< 0 U	2.43	0.262	0.106	1.21	1.75
Anthracene	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	0.042 J	< 0.1 U	4.69	0.36	0.108 J	1.54	2.39
Benzo(a)Anthracene	ug/kg	< 0.2 U	< 0.2 U	3.33	0.087 J	< 0.2 U	7.54	0.633	0.175 J	5.70	8.62
Benzo(a)Pyrene	ug/kg	< 0.1 U	< 0.1 U	4.49	0.042 J	< 0.1 U	9.89	0.899	0.149	5.81 J	10.1 J
Benzo(b)Fluoranthene	ug/kg	< 0.2 U	< 0.2 U	10.4	0.292	< 0.2 U	28.3	2.75	0.673	19.5	32.0
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	< 0.1 U	11.1	0.087 J	< 0.1 U	19.5	1.96	0.404	17.9	27.1
Benzo(j)+(k)Fluoranthene	ug/kg	< 0.1 U	< 0.1 U	3.93	0.114	< 0.1 U	11.4	1.07	0.256	6.17 J	12.1 J
Chrysene/Triphenylene	ug/kg	< 0.1 U	< 0.1 U	26.8	0.355	< 0.1 U	32.8	3.12	0.833	28.8	42.3
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	< 0.1 U	2.57	0.064 J	< 0.1 U	4.71	0.613	0.134	3.83	5.68
Fluoranthene	ug/kg	1.05	1.43	5.64	0.627	1.29	12.8	1.63	< 0.534 UB	12.8	19.9
Fluorene	ug/kg	3.60	3.64	1.76	0.759 J	2.69	3.06	0.83	0.992	2.55 J	6.01 J
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	< 0.1 U	4.13	0.116	< 0.1 U	9.87	1.21	0.305	8.78	13.1
Naphthalene	ug/kg	1.22	< 1.17 UB	1.56	0.648	0.750	3.59	1.34	0.982	3.17 J	5.51 J
Phenanthrene	ug/kg	8.95	10.5	10.8	2.78	9.00	15.2	2.89	2.67	18.1	28.5
Pyrene	ug/kg	< 0.138 UB	< 0.14 UB	14.3	< 0.14 UB	< 0.333 UB	22.6	2.03	< 0.494 UB	19.4	30.0

Location		SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008	SO-DA-008	SO-DA-009	SO-DA-009	SO-DA-009	SO-DA-010	SO-DA-010
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
Sample ID		SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)	SO-DA-008(1.0-1.5)	SO-DA-009(0.0-0.5)	SO-DA-009(0.5-1.0)	SO-DA-009(1.0-1.5)	SO-DA-010(0.0-0.5)	SO-DA-DUP-02-080213FD
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	< 0.2 U	< 0.2 U	13.9	0.252	< 0.2 U	23.5	2.55	0.664	19.2	29.0
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	58.3	0.609	< 0.2 U	57.7	7.13	1.97	42.8 J	78.6 J
C1-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	40.2	< 0.5 U	< 0.5 U	58.5	6.11	1.20	36.5 J	69.2 J
C1-Fluorenes	ug/kg	1.33	1.27	11.8	0.354 J	< 0.4 U	10.7	0.93	0.533	9.54	11.2
C1-Phenanthrenes/Anthracenes	ug/kg	4.10	4.17	52.0	< 0.1 U	5.76	41.4	6.25	< 0.1 U	49.7	48.0
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	94.7	< 0.2 U	< 0.2 U	91.6	9.26	3.21	65.3 J	116 J
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	40.4	49.9
C2-Naphthalenes	ug/kg	2.64	2.08	8.82	0.704 J	1.50	14.1	3.04	2.04	25.2	23.4
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	139	< 0.3 U	< 0.3 U	131	11.0	< 0.3 U	107	145
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	63.6	< 0.2 U	< 0.2 U	64.4	7.75	2.21	55.5	86.6
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	75.2	124
C3-Naphthalenes	ug/kg	2.15	1.64	28.6	< 0.7 UJ	1.24	27.7	3.60	2.06	57.6	36.5
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	215	< 0.3 U	< 0.3 U	249	18.9	< 0.3 U	154 J	287 J
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	36.4	< 0.2 U	< 0.2 U	40.1	3.53	< 0.2 U	31.7	49.6
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	58.3	< 0.7 UJ	< 0.7 U	77.1	< 0.7 U	< 0.7 U	68.5	60.6
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	212	< 0.3 U	< 0.3 U	223	19.7	< 0.3 U	116 J	270 J
Perylene	ug/kg	R	R	R	R	R	3.09 J	R	R	1.89 J	2.44 J
C1-Dibenzothiophenes	ug/kg	0.597	0.697	49.4	0.447	0.581	38.3	1.99	1.20	44.8	40.4
C1-Naphthalenes	ug/kg	1.28	0.991 J	2.21	0.430 J	0.754 J	5.47	1.41	1.00 J	6.75	10.8
C2-Dibenzothiophenes	ug/kg	0.622	0.639	152	0.933	< 0.2 U	141	5.93	2.61	104	141
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	72.2	< 0.5 U	< 0.5 U	100	10.5	2.43	60.8 J	109 J
C3-Dibenzothiophenes	ug/kg	0.610	< 0.2 U	277	1.15	< 0.2 U	268	14.7	4.91	153 J	278 J
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	66.9	< 0.5 U	< 0.5 U	86.0	8.18	1.91	44.1 J	96.6 J
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	235	< 0.2 U	< 0.2 U	194	12.2	< 0.2 U	129	273
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	101	< 0.5 U	< 0.5 U	90.2	12.2	< 0.5 U	61.5 J	144 J
Dibenzothiophene	ug/kg	0.587	0.640	6.42	0.246	0.609	6.66	0.71	0.438	9.22	8.64
VOCs											
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 9 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 15 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
2-Butanone (MEK)	ug/kg	< 9 U	< 10 U	7 J	< 11 U	< 10 U	9 J	< 11 U	< 11 U	20	42
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U

Location		SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008	SO-DA-008	SO-DA-009	SO-DA-009	SO-DA-009	SO-DA-010	SO-DA-010
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
Sample ID		SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)	SO-DA-008(1.0-1.5)	SO-DA-009(0.0-0.5)	SO-DA-009(0.5-1.0)	SO-DA-009(1.0-1.5)	SO-DA-010(0.0-0.5)	SO-DA-DUP-02-080213FD
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 9 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 15 U
Acetone	ug/kg	12 J	10 J	45	24	9 J	79	40	9 J	130	290
Allyl chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Benzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Chloroform	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Styrene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Toluene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	1 J	2 J
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Trichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	1 J	< 5 U	< 6 U	< 5 U	2 J	< 6 U	< 8 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U

Location		SO-DA-010	SO-DA-010	SO-DA-011	SO-DA-011	SO-DA-011	SO-DA-012	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
Sample ID		SO-DA-010(0.5-1.0)	SO-DA-010(1.0-1.5)	SO-DA-011(0.0-0.5)	SO-DA-011(0.5-1.0)	SO-DA-011(1.0-1.5)	SO-DA-012(0.0-0.5)	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Grain Size											
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	99.9	NA	NA	100	NA	NA	99.9	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	99.8	NA	NA	99.8	NA	NA	99.8	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.6	NA	NA	99.4	NA	NA	99.7	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	99.4	NA	NA	97.8	NA	NA	99.6	NA
Sieve, 600 micron, % passing	% passing	NA	NA	99.2	NA	NA	92.8	NA	NA	99.5	NA
Sieve, 300 micron, % passing	% passing	NA	NA	98.3	NA	NA	84.3	NA	NA	98.8	NA
Sieve, 150 micron, % passing	% passing	NA	NA	94.0	NA	NA	75.3	NA	NA	89.4	NA
Sieve, 75 micron, % passing	% passing	NA	NA	85.6	NA	NA	67.9	NA	NA	72.8	NA
Sieve, 64 micron, % passing	% passing	NA	NA	82.0	NA	NA	64.0	NA	NA	67.0	NA
Sieve, 50 micron, % passing	% passing	NA	NA	74.0	NA	NA	55.0	NA	NA	54.0	NA
Sieve, 20 micron, % passing	% passing	NA	NA	50.5	NA	NA	36.0	NA	NA	34.0	NA
Sieve, 5 micron, % passing	% passing	NA	NA	23.0	NA	NA	21.0	NA	NA	15.0	NA
Sieve, 2 micron, % passing	% passing	NA	NA	14.0	NA	NA	18.0	NA	NA	11.0	NA
Sieve, 1 micron, % passing	% passing	NA	NA	9.0	NA	NA	17.0	NA	NA	10.0	NA
Metals											
Arsenic	mg/kg	2.93	3.60	3.81	3.80	4.92	8.14 J	5.25 J	4.64 J	2.52 J	2.30 J
Barium	mg/kg	33.3	35.8	84.4	97.8	99.7	79.7	85.4	91.2	41.1	26.7
Cadmium	mg/kg	< 0.577 U	0.135 J	0.203 J	0.119 J	0.132 J	0.168 J	0.158 J	0.169 J	0.0904 J	0.112 J
Chromium	mg/kg	11.3 J	11.6 J	13.0 J	14.2 J	13.7 J	22.7 J	17.2 J	20.4 J	10.1 J	10.3 J
Lead	mg/kg	5.51	5.77	18.6	14.7	11.5	30.7 J	27.3 J	23.2 J	9.44 J	9.13 J
Mercury	mg/kg	0.0157 J	0.0126 J	0.0299 J	0.0299 J	0.0326 J	0.0304 J	0.0217 J	0.0323 J	0.0204 J	0.0188 J
Nickel	mg/kg	7.22	7.50	9.43	10.4	10.7	9.21	8.96	12.0	4.92	3.74
Selenium	mg/kg	< 2.31 U	< 2.25 U	1.12 J	1.53 J	< 2.33 U	< 2.26 U	< 2.15 U	< 2.31 U	< 2.29 U	< 2.28 U
Silver	mg/kg	< 0.577 U	< 0.563 U	< 0.599 U	< 0.582 U	< 0.583 U	0.259 J	< 0.537 U	< 0.578 U	< 0.572 U	< 0.569 U
Vanadium	mg/kg	18.9	19.9	20.5	21.5	21.5	43.4 J	33.4 J	34.1 J	15.0 J	14.7 J
Other											
Black Carbon	%	NA	NA	< 0.17 U	NA	NA	< 0.19 UJ	NA	NA	< 0.18 UJ	NA
Percent Moisture	%	13.3	12.9	17.4	16.6	15.1	12.2	10.4	16.0	14.3	14.7
Total Organic Carbon	%	NA	NA	0.890	NA	NA	0.700	NA	NA	0.320	NA
Priority PAHs											
1-Methylnaphthalene	ug/kg	0.439 J	0.467 J	2.04	2.95	0.988	0.927	1.04	2.04	0.548	0.221 J
2-Methylnaphthalene	ug/kg	1.00 J	1.15 J	4.03	5.93	1.88	2.07	2.33	4.03	1.16 J	0.451 J
Acenaphthene	ug/kg	0.170	0.248	0.237	0.113	0.145	0.118	0.179	0.420	0.054 J	0.069 J
Acenaphthylene	ug/kg	0.356	0.139	0.698	0.582	0.095	2.16	0.727	1.29	0.209	0.052
Anthracene	ug/kg	0.567	0.192	0.958	0.589	0.035 J	3.73	0.876	1.71	0.228	0.047 J
Benzo(a)Anthracene	ug/kg	0.832	0.326	7.40 J	1.62	0.138 J	6.92	1.57	2.61	1.14	0.149 J
Benzo(a)Pyrene	ug/kg	0.847	0.213	6.55	1.10	0.041 J	4.64	0.676	1.57	1.10	0.062 J
Benzo(b)Fluoranthene	ug/kg	3.70	1.03	25.7 J	6.76	0.230	25.2	6.16	9.28	3.73	0.280
Benzo(g,h,i)Perylene	ug/kg	2.64	0.540	16.2 J	3.49	0.084 J	7.01	1.68	2.12	1.62	0.103
Benzo(j)+(k)Fluoranthene	ug/kg	1.40	0.384	9.38	2.17	0.070 J	11.8	2.18	3.15	1.40	0.083 J
Chrysene/Triphenylene	ug/kg	3.74	1.11	16.1 J	4.10	0.125	17.1	4.63	8.30	3.16	0.154
Dibenz(a,h)Anthracene	ug/kg	0.748	0.211	4.05	0.930	0.038 J	2.36	0.580	0.740	0.399	0.030 J
Fluoranthene	ug/kg	2.50	1.88	20.8 J	6.66	0.745	15.9	6.39	12.3	3.59	0.462
Fluorene	ug/kg	0.862	2.32	3.82	7.02	2.10	2.75	3.62	5.67	1.74	0.862
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	0.451	14.2 J	3.38	0.110	6.88	1.76	2.22	1.26	0.095
Naphthalene	ug/kg	1.02	0.909	3.78	5.26	1.60	2.35	2.47	4.88	1.19	0.668
Phenanthrene	ug/kg	3.55	7.67	14.6 J	20.6	5.06	12.7	12.5	19.1	6.00	2.26
Pyrene	ug/kg	2.09	0.871	13.4 J	< 3.15 UB	0.159	10.3	3.22	7.75	2.73	0.331

Location		SO-DA-010	SO-DA-010	SO-DA-011	SO-DA-011	SO-DA-011	SO-DA-012	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
Sample ID		SO-DA-010(0.5-1.0)	SO-DA-010(1.0-1.5)	SO-DA-011(0.0-0.5)	SO-DA-011(0.5-1.0)	SO-DA-011(1.0-1.5)	SO-DA-012(0.0-0.5)	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	3.40	0.979	14.9 J	3.67	0.134 J	15.3	3.75	5.07	2.67	0.202
C1-Chrysenes	ug/kg	6.85	1.53	7.53	1.68	< 0.2 U	13.1	2.85	6.25	3.47	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	4.84	1.03	7.20	1.86	0.568	10.4	2.10	5.96	2.73	< 0.5 U
C1-Fluorenes	ug/kg	0.781	0.990	1.58	2.60	0.877	1.61	1.07	2.52	0.874	0.258 J
C1-Phenanthrenes/Anthracenes	ug/kg	6.37	5.66	8.71	9.13	< 0.1 U	6.78	5.26	8.45	4.66	< 0.1 U
C2-Chrysenes	ug/kg	9.84	2.63	6.37	1.73	< 0.2 U	13.2	2.77	4.94	4.29	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	1.42	1.29	6.86	10.6	3.19	2.89	3.26	6.24	1.95	0.965
C2-Phenanthrenes/Anthracenes	ug/kg	15.3	< 0.3 U	8.97	5.99	< 0.3 U	10.3	< 0.3 U	7.23	8.28	< 0.3 U
C3-Chrysenes	ug/kg	7.17	1.63	5.66	0.981	< 0.2 U	10.3	1.95	3.10	3.47	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	0.99	1.06	4.26	6.84	2.19	2.23	2.56	8.94	2.41	1.74
C3-Phenanthrenes/Anthracenes	ug/kg	21.8	< 0.3 U	5.92	< 0.3 U	< 0.3 U	11.9	< 0.3 U	2.97	6.58	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	2.66	< 0.2 U	< 0.2 U	6.29	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	3.93	< 0.7 U	4.55	6.64	2.26	4.18	< 0.7 U	< 0.7 U	1.59	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	20.1	< 0.3 U	7.00	< 0.3 U	< 0.3 U	10.6	< 0.3 U	3.60	5.50	< 0.3 U
Perylene	ug/kg	R	R	1.42 J	0.141 J	R	0.951 J	0.228 J	2.76 J	0.280 J	0.028 J
C1-Dibenzothiophenes	ug/kg	1.89	0.718	1.33	1.77	0.408	1.57	1.36	3.41	1.50	0.150
C1-Naphthalenes	ug/kg	0.93 J	1.04	3.89	5.69	1.83	1.84	2.07	3.72	1.05	0.413 J
C2-Dibenzothiophenes	ug/kg	9.66	1.41	2.35	1.98	0.444	5.22	1.62	3.68	4.44	0.188 J
C2-Fluoranthenes/Pyrenes	ug/kg	7.62	2.02	10.0	2.93	< 0.5 U	16.9	3.98	9.15	4.32	< 0.5 U
C3-Dibenzothiophenes	ug/kg	21.5	2.03	3.77	1.18	0.184 J	11.1	1.33	3.77	7.38	0.270
C3-Fluoranthenes/Pyrenes	ug/kg	6.00	1.33	5.01	1.12	< 0.5 U	8.81	1.84	3.98	2.91	< 0.5 U
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	4.42	< 0.2 U	< 0.2 U	9.29	< 0.2 U	< 0.2 U	5.69	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	11.5	< 0.5 U	7.89	< 0.5 U	< 0.5 U	16.2	< 0.5 U	5.12	4.04	< 0.5 U
Dibenzothiophene	ug/kg	0.48	0.615	1.41	2.25	0.559	1.14	1.27	2.11	0.681	0.101 J
VOCs											
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 10 U	< 11 U	< 13 U	< 10 U	< 10 U	< 11 U	< 9 U	< 9 U	< 9 U	< 10 U
1,1-Dichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloropropene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3-Dichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
2,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
2-Butanone (MEK)	ug/kg	< 10 U	< 11 U	35	11	< 10 U	8 J	4 J	< 9 U	< 9 U	< 10 U
2-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U

Location		SO-DA-010	SO-DA-010	SO-DA-011	SO-DA-011	SO-DA-011	SO-DA-012	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
Sample ID		SO-DA-010(0.5-1.0)	SO-DA-010(1.0-1.5)	SO-DA-011(0.0-0.5)	SO-DA-011(0.5-1.0)	SO-DA-011(1.0-1.5)	SO-DA-012(0.0-0.5)	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
2-Phenylbutane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
4-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 10 U	< 11 U	< 13 U	< 10 U	< 10 U	< 11 U	< 9 U	< 9 U	< 9 U	< 10 U
Acetone	ug/kg	23	23	230	99	39	110	67	12 J	31	< 20 U
Allyl chloride	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Benzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromochloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromodichloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromomethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon Tetrachloride	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Chlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromochloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromomethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorofluoromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Ethylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
n-Butylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
n-Propylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Styrene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Tert-Butylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Tetrachloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Tetrahydrofuran	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Toluene	ug/kg	< 5 U	< 6 U	2 J	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Trichloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	1 J	1 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Vinyl Chloride	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U
Xylene (Total)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U

Location		SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
Depths (ft)		1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
Sample ID		SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
Grain Size									
Sieve 3 inch, % passing	% passing	NA	100	NA	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	100	NA	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	100	NA	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	100	NA	NA	NA	99.9	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	99.9	NA	NA	NA	99.7	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	99.9	NA	NA	NA	99.5	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	99.7	NA	NA	NA	98.9	NA	NA
Sieve, 600 micron, % passing	% passing	NA	99.4	NA	NA	NA	96.1	NA	NA
Sieve, 300 micron, % passing	% passing	NA	98.9	NA	NA	NA	92.8	NA	NA
Sieve, 150 micron, % passing	% passing	NA	92.8	NA	NA	NA	84.2	NA	NA
Sieve, 75 micron, % passing	% passing	NA	79.4	NA	NA	NA	75.2	NA	NA
Sieve, 64 micron, % passing	% passing	NA	75.0	NA	NA	NA	70.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	67.0	NA	NA	NA	60.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	46.0	NA	NA	NA	33.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	25.0	NA	NA	NA	18.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	16.0	NA	NA	NA	15.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	11.0	NA	NA	NA	12.0	NA	NA
Metals									
Arsenic	mg/kg	2.52 J	4.55 J	3.55 J	3.05 J	1.92 J	7.71 J	13.7 J	6.92 J
Barium	mg/kg	27.4	73.3	69.2	41.2	31.8	111	130	115
Cadmium	mg/kg	< 0.576 U	0.147 J	0.186 J	< 0.593 U	< 0.581 U	0.186 J	< 0.593 U	0.136 J
Chromium	mg/kg	9.63 J	13.1 J	12.5 J	10.7 J	9.63 J	23.7 J	38.0 J	23.0 J
Lead	mg/kg	8.15 J	16.7 J	14.9 J	8.97 J	6.95 J	31.2 J	38.9 J	26.1 J
Mercury	mg/kg	0.0170 J	0.0393 J	0.0376 J	0.0323 J	0.0265 J	0.0349 J	0.0261 J	0.0329 J
Nickel	mg/kg	4.05	9.02	8.50	6.36	5.42	9.70	10.6	9.26
Selenium	mg/kg	< 2.30 U	< 2.51 U	< 2.37 U	< 2.37 U	< 2.33 U	< 2.40 U	< 2.37 U	< 2.38 U
Silver	mg/kg	< 0.576 U	< 0.627 U	< 0.592 U	< 0.593 U	< 0.581 U	0.211 J	0.591 J	0.213 J
Vanadium	mg/kg	13.5 J	20.8 J	19.8 J	17.0 J	14.3 J	39.6 J	76.4 J	39.0 J
Other									
Black Carbon	%	NA	< 0.17 UJ	< 0.2 UJ	NA	NA	< 0.2 UJ	NA	NA
Percent Moisture	%	14.9	21.0	16.4	16.5	16.5	17.5	18.2	17.7
Total Organic Carbon	%	NA	1.22	1.11	NA	NA	1.86	NA	NA
Priority PAHs									
1-Methylnaphthalene	ug/kg	0.500 J	1.06	1.13	0.691	0.310 J	2.21	1.10	0.800
2-Methylnaphthalene	ug/kg	1.05 J	2.43	2.70	1.56	0.653 J	4.79	2.59	1.72
Acenaphthene	ug/kg	0.049 J	0.318	0.255	0.201	0.039 J	0.482	0.340	0.118
Acenaphthylene	ug/kg	0.099	1.90	2.70	0.540	0.091	1.56	0.530	0.288
Anthracene	ug/kg	< 0.1 U	2.37	3.76	0.668	0.075 J	2.42	0.590	0.349
Benzo(a)Anthracene	ug/kg	0.117 J	6.34 J	12.3 J	1.68	0.263	6.73	1.54	0.991
Benzo(a)Pyrene	ug/kg	< 0.1 U	3.65 J	9.04 J	0.833	< 0.1 U	3.28	1.56	0.392
Benzo(b)Fluoranthene	ug/kg	0.203 J	25.8 J	45.6 J	5.62	0.687	31.5	8.00	3.92
Benzo(g,h,i)Perylene	ug/kg	0.050 J	8.13 J	16.6 J	1.85	0.082 J	10.6	3.57	1.23
Benzo(j)+(k)Fluoranthene	ug/kg	0.061 J	9.78	16.2	1.85	0.240	12.2	2.56	0.909
Chrysene/Triphenylene	ug/kg	0.125	15.8	24.4	3.92	0.476	17.2 J	6.08	3.35
Dibenz(a,h)Anthracene	ug/kg	0.021 J	2.70 J	4.80 J	0.605	0.042 J	3.59	1.08	0.433
Fluoranthene	ug/kg	0.903	17.9	24.1	6.19	0.717	17.7	6.03	3.15
Fluorene	ug/kg	2.72	3.19 J	1.63 J	5.78	1.29	3.79	4.91	2.18
Indeno[1,2,3-cd]pyrene	ug/kg	0.063	8.62 J	15.6 J	1.72	0.160	8.80	2.42	1.02
Naphthalene	ug/kg	1.17	2.85	2.85	1.63	0.949	4.31	2.74	2.30
Phenanthrene	ug/kg	6.90	14.8	11.2	19.8	3.27	18.9 J	17.1	6.92
Pyrene	ug/kg	0.367	12.4 J	21.2 J	2.78	0.223	12.5	3.00	1.80

Location		SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
Depths (ft)		1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
Sample ID		SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
Forensic PAHs									
Benzo(e)Pyrene	ug/kg	0.147 J	15.36 J	26.2 J	3.68	0.364	22.5 J	6.75	2.52
C1-Chrysenes	ug/kg	< 0.2 U	8.60	14.4	3.80	< 0.2 U	22.5	12.5	6.59
C1-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	7.91	13.2	2.61	< 0.5 U	13.3	6.44	2.62
C1-Fluorenes	ug/kg	0.674	1.69	1.42	2.31	0.408	2.89	1.82	0.940
C1-Phenanthrenes/Anthracenes	ug/kg	< 0.1 U	7.31	7.80	6.44	< 0.1 U	9.12	6.34	4.85
C2-Chrysenes	ug/kg	< 0.2 U	8.34	11.6	4.38	< 0.2 U	28.6	15.7	6.16
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	1.67	4.03	3.62	2.92	0.883	8.43	4.07	2.51
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	7.38	9.67	6.67	< 0.3 U	16.5	10.1	7.81
C3-Chrysenes	ug/kg	< 0.2 U	7.71	9.96	4.95	< 0.2 U	27.4	12.2	5.28
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	2.85	3.28	2.55	2.54	1.093	7.76	2.57	2.02
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	7.58	11.5	6.69	< 0.3 U	29.1	19.0	7.05
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	14.0	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	7.18	10.0	4.95	< 0.3 U	37.5	19.7	7.98
Perylene	ug/kg	R	0.64 J	1.92 J	0.239 J	0.043 J	1.27 J	0.572 J	0.322 J
C1-Dibenzothiophenes	ug/kg	0.187	1.47	1.66	0.725	0.178	4.33	3.15	1.23
C1-Naphthalenes	ug/kg	0.953 J	2.15	2.36	1.39	0.592 J	4.31	2.27	1.55
C2-Dibenzothiophenes	ug/kg	0.236	1.88	2.63	1.03	0.252	10.59	< 0.2 U	2.79
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	13.0	17.8	5.39	< 0.5 U	26.6	12.4	< 0.5 U
C3-Dibenzothiophenes	ug/kg	< 0.2 U	3.20 J	7.49 J	2.56	< 0.2 U	22.0	< 0.2 U	6.09
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	5.05 J	9.47 J	2.77	< 0.5 U	15.2	9.05	< 0.5 U
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 UJ	5.53 J	< 0.2 U	< 0.2 U	21.9	< 0.2 U	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	11.0	12.8	6.43	< 0.5 U	36.4	17.5	< 0.5 U
Dibenzothiophene	ug/kg	0.211	1.26	1.38	1.10	0.240	1.87	1.16	0.857
VOCs									
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 10 U	< 13 U	< 12 U	< 10 U	< 9 U	< 620 U	< 13 U	< 11 U
1,1-Dichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
2-Butanone (MEK)	ug/kg	< 10 U	10 J	11 J	4 J	< 9 U	< 620 U	8 J	< 11 U
2-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U

	Location	SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
	Depths (ft)	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
	Sample ID	SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
2-Phenylbutane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 10 U	< 13 U	< 12 U	< 10 U	< 9 U	< 620 U	< 13 U	< 11 U
Acetone	ug/kg	< 20 U	220	250	85	30	< 1200 U	140	66
Allyl chloride	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Benzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	34 J	< 6 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chloroform	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	620	3 J	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	120 J	42	< 6 U
Styrene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Toluene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	5 J	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Trichloroethene	ug/kg	1 J	< 6 U	2 J	1 J	2 J	< 310 U	< 6 U	< 6 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U

Notes:
1. Tier II data validation was performed on all sample results. Tier III data validation on 10% of the data is ongoing.

Acronyms and Abbreviations:
% = percent
ft = feet
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
SIM = selective ion monitoring
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
USEPA = United States Environmental Protection Agency
VOCs = volatile organic compounds

Qualifier Definitions:
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
D = Compound quantitated on a diluted sample
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
R = The sample results are rejected
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.