Appendix 1

Baseline Habitat Assessment

(Previously Submitted)

EPA Region 5 Records Ctr.

226627

Appendix 2

Specialized Seeding Specifications

(Previously Submitted)

Appendix 3

Mulching Specifications

(Previously Submitted)

Appendix 4

Sauget Area 1 Support Sampling Plan

Industry-Specific Sediment Analyses

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	FASED-BPL-S1-0-10IN	FASED-BPL-S1-0-10INEB	FASED-BPL-S2-0-10IN	FASED-BPL-S3-0-8IN	FASED-BPL-S4-0-10IN	FASED-BPL-S5-0-9IN	FASED-BPL-S6-0-11IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		20 U	0.5 U	22 U	24 U	22 U	22 U	22 U
Dichlorobiphenyl		3.9 U	0.1 U	4.3 U	4.8 U	4.4 U	4.3 U	4.3 U
Heptachlorobiphenyl		12 U	0.3 U	13 U	15 U	13 U	13 U	13 U
Hexachlorobiphenyl		7.9 U	0.2 U	8.8 U	9.8 U	8.9 U	8.7 U	8.8 U
Monochlorobiphenyl		3.9 U	0.1 U	4.3 U	4.8 U	4.4 U	4.3 U	4.3 U
Nonachlorobiphenyl		20 U	0.5 U	22 U	24 U	22 U	22 U	22 U
Octachlorobiphenyl		12 U	0.3 U	13 U	15 U	13 U	13 U	13 U
Pentachlorobiphenyl		7.9 U	0.2 U	8.8 U	9.8 U	8.9 U	8.7 U	8.8 U
Tetrachlorobiphenyl		7.9 U	0.2 U	8.8 U	9.8 U	8.9 U	8.7 U	8.8 U
Trichlorobiphenyl		3.9 U	0.1 U	4.3 U	4.8 U	4.4 U	4.3 U	4.3 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-BPL-S6-0-11INFD	FASED-BPL-S7-0-9IN	FASED-BPL-S8-0-9IN	FASED-CSB-S10W-0-9IN	FASED-CSB-S10W-0-9INFD	FASED-CSB-S1W-0-25IN	FASED-CSB-S2-0-23IN
Sample Date	02/03/00	02/03/00	02/03/00	02/02/00	02/02/00	02/01/00	02/01/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	24 U	22 U	24 U	100 U	70 J	730	2300 U
Dichlorobiphenyl	4.8 U	4.4 U	4.8 U	20 U	19 U	100 U	460 U
Heptachlorobiphenyl	14 U	13 U	14 U	700	860	2100	1400 U
Hexachlorobiphenyl	9.7 U	8.9 U	9.7 U	1200	1500	6600	3400
Monochlorobiphenyl	4.8 U	4.4 U	4.8 U	20 U	19 U	100 U	460 U
Nonachlorobiphenyl	24 U	22 U	24 U	100 U	72 J	510 U	2300 U
Octachlorobiphenyl	14 U	13 U	14 U	190	360	380	1400 U
Pentachlorobiphenyl	9.7 U	8.9 U	9.7 U	740	800	7300	3800
Tetrachlorobiphenyl	9.7 U	8.9 U	9.7 U	320	680	5400	5700
Trichlorobiphenyl	4.8 U	4.4 U	4.8 U	20	35	840	1400
Total PCBs	ND	ND	ND	3170	4377	23350	14300

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSB-S3-0-26IN	FASED-CSB-S4W-0-23IN	FASED-CSB-S5-0-22IN	FASED-CSB-S6-0-20IN	FASED-CSB-S7-0-18IN	FASED-CSB-S8E-0-22IN	FASED-CSB-S9W-0-9IN
Sample Date	02/01/00	02/01/00	02/01/00	02/02/00	02/02/00	02/02/00	02/02/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	140 J	280 J	620	250 J	18 J	150	490 U
Dichlorobiphenyl	72	66 U	210	180	9.1	27 U	97 U
Heptachlorobiphenyl	96 U	170 J	500	160 J	15 U	57 J	490
Hexachlorobiphenyl	400	1300	2800	1100	22	360	1800
Monochlorobiphenyl	32 U	66 U	63 U	62 U	5	27 U	97 U
Nonachlorobiphenyl	160 U	330 U	320 U	310 U	25 U	140 U	490 U
Octachlorobiphenyl	96 U	200 U	190 U	190 U	15 U	82 U	100 J
Pentachlorobiphenyl	290	3300	4800	3500	60	700	1900
Tetrachlorobiphenyl	650	7500	3400	14000	240	750	16000
Trichlorobiphenyl	330	2300	1200	5100	68	55	2200
Total PCBs	1882	14850	13530	24290	422.1	2072	22490

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSC-S1-0-13IN	FASED-CSC-S10-0-28IN	FASED-CSC-S11-0-25IN	FASED-CSC-S11-0-25INFD	FASED-CSC-S12E-0-18IN	FASED-CSC-S2-0-28IN	FASED-CSC-S2-0-28INFD
	Sample Date	01/31/00	02/01/00	02/01/00	02/01/00	02/01/00	01/31/00	01/31/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		500 J	320 J	1800	4300 U	3600	540 J	1900
Dichlorobiphenyl		230 U	130 U	260	850 U	66 U	140 U	140 J
Heptachlorobiphenyl		690 U	250 J	1000	2600 U	4300	420 U	1600
Hexachlorobiphenyl		780	2400	6300	1600 J	14000	970	6500
Monochlorobiphenyl		230 U	130 U	260	850 U	66 U	140 U	150 U
Nonachlorobiphenyl		1200 U	680 J	1000 U	4300 U	900	700 U	350 J
Octachlorobiphenyl		690 U	410 U	600 U	2600 U	1000	420 U	320 J
Pentachlorobiphenyl		1100	3600	9300	2700	13000	1700	9000
Tetrachlorobiphenyl		460 U	2800	7300	1700 U	11000	730	6400
Trichlorobiphenyl		230 U	960	1000	850 U	450	190	1800
Total PCBs		2380	11010	27220	4300	48250	4130	28010

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	FASED-CSC-S3-0-20IN	FASED-CSC-S4-0-22IN	FASED-CSC-S5W-0-26IN	FASED-CSC-S6W-0-26IN	FASED-CSC-S7-0-29IN	FASED-CSC-S8-0-16IN	FASED-CSC-S9-0-27IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	02/01/00	02/01/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		1400 J	260	1200	1100	410 J	490 J	2000 J
Dichlorobiphenyl		330 U	38 U	130 U	50 U	140	180 U	850 J
Heptachlorobiphenyl		1000 U	120	630	700	360 U	540 U	2900 U
Hexachlorobiphenyl		2800	1000	4100	3500	480	2000	7800
Monochlorobiphenyl		330 U	38 U	130 U	50 U	120 U	180 U	940 U
Nonachlorobiphenyl		1700 U	190	680 U	140 J	600 U	900 U	4800 U
Octachlorobiphenyl		1000 U	110 U	410 U	190	360 U	540 U	2900 U
Pentachlorobiphenyl		3800	2100	3900	4600	240 U	2800	9100
Tetrachlorobiphenyl		1900	950	3500	2500	240 U	1500	4700
Trichlorobiphenyl		570	110	300	80	240	420	2300
Total PCBs		10470	4730	13630	12810	1270	7210	26750

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	FASED-CSC-S9-0-27INFD	FASED-CSD-S1W-0-24IN	FASED-CSD-S2-0-15IN	FASED-CSD-S3-0-21IN	FASED-CSD-S4-0-23IN	FASED-CSD-S5-0-10IN	FASED-CSD-S6E-0-13IN
	Sample Date	02/01/00	02/02/00	01/27/00	01/27/00	01/27/00	01/31/00	01/28/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		470	140 U	720	370	780	8.7 J	12 J
Dichlorobiphenyl		67	27 U	66	53 U	57 J	4.5 U	5.5 U
Heptachlorobiphenyl		340	82 U	210	270	480	14 U	17 U
Hexachlorobiphenyl		2600	96	720	2200	1800	18	39
Monochlorobiphenyl		60 U	27 U	49 U	53 U	61 U	4.5 U	5.5 U
Nonachlorobiphenyl		120 J	140 U	670	260 J	520	23 U	28 U
Octachlorobiphenyl		61 J	82 U	57 J	160 U	69 J	14 U	17 U
Pentachlorobiphenyl		4000	110	440	3000	4300	9.6	66
Tetrachlorobiphenyl		2800	55 U	610	1800	2200	9.2 U	11 U
Trichlorobiphenyl		380	27 U	470	190	410	4.5 U	5.5 U
Total PCBs		10838	206	3963	8090	10616	36.3	117

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSD-S7-0-33IN	FASED-CSD-S8-0-29IN	FASED-CSD-S9W-0-23IN	FASED-CSE-S1-0-12IN	FASED-CSE-S10W-0-27IN	FASED-CSE-S11W-0-22IN	FASED-CSE-S12-0-21IN
Sample Date	01/31/00	01/31/00	01/31/00	01/19/00	01/24/00	01/24/00	01/24/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	1800	540 J	320	270 U	360 U	150 U	1400 U
Dichlorobiphenyl	280 U	120 U	52 U	54 U	72 U	30 U	280 U
Heptachlorobiphenyl	860 U	370 U	160 U	160 U	220 U	92 U	860 U
Hexachlorobiphenyl	1400	140 J	470	110 U	150 U	62 U	580 U
Monochlorobiphenyl	280 U	120 U	52 U	54 U	72 U	30 U	280 U
Nonachlorobiphenyl	720 J	620 U	110 J	270 U	360 U	150 U	1400 U
Octachlorobiphenyl	860 U	370 U	160 U	160 U	220 U	92 U	860 U
Pentachlorobiphenyl	490 J	250 U	450	110 U	150 U	62 U	580 U
Tetrachlorobiphenyl	580 U	250 U	70 J	110 U	150 U	62 U	580 U
Trichlorobiphenyl	1400	250	61	54 U	72 U	30 U	280 U
Total PCBs	5810	930	1481	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSE-S13E-0-21IN	FASED-CSE-S14W-0-31IN	FASED-CSE-S14W-0-31IN	FASED-CSE-S15-0-19IN	FASED-CSE-S16E-0-21IN	FASED-CSE-S17-0-28IN	FASED-CSE-S18-0-25IN
Sample Date	01/24/00	01/24/00	01/24/00	01/25/00	01/25/00	01/25/00	01/25/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	120 U	2000 U	---	1700 U	660	270 U	1600 U
Dichlorobiphenyl	24 U	400 U	---	330 U	66 U	53 U	320 U
Heptachlorobiphenyl	100	1200 U	---	1000 U	160 J	160 U	980 U
Hexachlorobiphenyl	300	820 U	---	670 U	2000	110 U	660 U
Monochlorobiphenyl	24 U	400 U	---	330 U	66 U	53 U	320 U
Nonachlorobiphenyl	120 U	2000 U	---	1700 U	28 J	140 J	1600 U
Octachlorobiphenyl	71 U	1200 U	---	1000 U	200 U	160 U	980 U
Pentachlorobiphenyl	50 U	820 U	---	670 U	4300	48 J	660 U
Tetrachlorobiphenyl	50 U	820 U	---	670 U	1500	110 U	660 U
Trichlorobiphenyl	24 U	400 U	---	330 U	110	53 U	320 U
Total PCBs	400	---	ND	ND	8758	188	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSE-S19E-0-28IN	FASED-CSE-S19E-0-28INFD	FASED-CSE-S20E-0-33IN	FASED-CSE-S21-0-28IN	FASED-CSE-S22E-0-26IN	FASED-CSE-S23-0-23IN	FASED-CSE-S24W-0-27IN
Sample Date	01/25/00	01/25/00	01/25/00	01/26/00	01/26/00	01/26/00	01/26/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	26 U	14 J	24 U	57	20 J	3600 U	58
Dichlorobiphenyl	5.2 U	5.1 U	4.8 U	5.9 U	4.9 U	720 U	5.1 J
Heptachlorobiphenyl	16 U	15 U	15 U	28	15 U	2200 U	73
Hexachlorobiphenyl	10 U	17	9.8 U	220	58	1400 U	340
Monochlorobiphenyl	5.2 U	5.1 U	4.8 U	5.9 U	4.9 U	720 U	5.4 U
Nonachlorobiphenyl	26 U	14 J	24 U	33	25 U	3600 U	26 J
Octachlorobiphenyl	16 U	15 U	15 U	18 U	15 U	2200 U	20
Pentachlorobiphenyl	10 U	26	9.8 U	360	92	1400 U	730
Tetrachlorobiphenyl	10 U	10 U	9.8 U	96	15	1400 U	400
Trichlorobiphenyl	5.2 U	5.1 U	4.8 U	6.3	4.9 U	720 U	50
Total PCBs	ND	71	ND	800.3	185	ND	1702.1

NOTES: *U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate*

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSE-S25W-0-29IN	FASED-CSE-S26E-0-12IN	FASED-CSE-S2W-0-19IN	FASED-CSE-S3-0-13IN	FASED-CSE-S4E-0-17IN	FASED-CSE-S5E-0-24IN	FASED-CSE-S6W-0-35IN
Sample Date	01/26/00	01/27/00	01/19/00	01/20/00	01/20/00	01/20/00	01/20/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	24 U	22 U	500 U	120 U	110 U	1600 U	89 J
Dichlorobiphenyl	4.6 U	4.4 U	98 U	24 U	22 U	320 U	20 J
Heptachlorobiphenyl	14 U	13 U	300 U	74 U	68 U	960 U	71 U
Hexachlorobiphenyl	19	4.2 J	200 U	49 U	45 U	640 U	400
Monochlorobiphenyl	4.6 U	4.4 U	98 U	24 U	22 U	320 U	24
Nonachlorobiphenyl	13 J	22 U	500 U	56 J	110 U	1600 U	120 U
Octachlorobiphenyl	14 U	13 U	300 U	74 U	68 U	960 U	71 U
Pentachlorobiphenyl	20	3.8 J	200 U	49 U	45 U	640 U	680
Tetrachlorobiphenyl	9.4 U	8.9 U	200 U	49 U	45 U	640 U	250
Trichlorobiphenyl	4.6 U	4.4 U	98 U	24 U	22 U	320 U	24 U
Total PCBs	52	8	ND	56	ND	ND	1463

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSE-S6W-0-35INFD	FASED-CSE-S7W-0-13IN	FASED-CSE-S8-0-32IN	FASED-CSE-S9-0-31IN	FASED-CSF-S10-0-9IN	FASED-CSF-S11W-0-10IN	FASED-CSF-S12-0-15IN
Sample Date	01/20/00	01/20/00	01/21/00	01/21/00	01/12/00	01/12/00	01/12/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	210	790 U	240 U	310 U	25 U	29 U	28 U
Dichlorobiphenyl	43	160 U	48 U	62 U	4.9 U	5.7 U	5.6 U
Heptachlorobiphenyl	43 J	480 U	90 J	190 U	15 U	17 U	17 U
Hexachlorobiphenyl	570	640	520	230	10 U	12 U	11 U
Monochlorobiphenyl	32	160 U	48 U	62 U	4.9 U	5.7 U	5.6 U
Nonachlorobiphenyl	120 J	490 J	240 U	310 U	25 U	29 U	28 U
Octachlorobiphenyl	75 U	480 U	140 U	190 U	15 U	17 U	17 U
Pentachlorobiphenyl	930	1200	710	500	10 U	12 U	11 U
Tetrachlorobiphenyl	380	320 U	140	130 U	10 U	12 U	11 U
Trichlorobiphenyl	76	160 U	48 U	62 U	4.9 U	5.7 U	5.6 U
Total PCBs	2404	2330	1460	730	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	FASED-CSF-S12-0-15INFD	FASED-CSF-S13W-0-15IN	FASED-CSF-S14W-0-15IN	FASED-CSF-S15W-0-28IN	FASED-CSF-S16-0-23IN	FASED-CSF-S17W-0-16IN	FASED-CSF-S18E-0-14IN
	Sample Date	01/12/00	01/12/00	01/12/00	01/13/00	01/13/00	01/13/00	01/13/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		28 U	33 J	57 J	310 U	30 U	160	52
Dichlorobiphenyl		5.5 U	7 UJ	6.7 UJ	61 U	5.9 U	6.1 U	6.2 U
Heptachlorobiphenyl		17 U	21 UJ	13 J	180 U	18 U	15 J	19 U
Hexachlorobiphenyl		11 U	14 UJ	14 UJ	120 U	12 U	12 U	13 U
Monochlorobiphenyl		5.5 U	7 UJ	6.7 UJ	61 U	5.9 U	6.1 U	6.2 U
Nonachlorobiphenyl		28 U	35 UJ	24 J	310 U	30 U	24 J	21 J
Octachlorobiphenyl		17 U	21 UJ	20 UJ	180 U	18 U	12 J	19 U
Pentachlorobiphenyl		11 U	160 J	250 J	64 J	13	220	170
Tetrachlorobiphenyl		11 U	48 J	93 J	120 U	12 U	44	18
Trichlorobiphenyl		5.5 U	7 UJ	6.7 UJ	61 U	5.9 U	6.1 U	6.2 U
Total PCBs		ND	241	437	64	13	475	261

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	FASED-CSF-S19-0-13IN	FASED-CSF-S1E-0-8IN	FASED-CSF-S2-0-7IN	FASED-CSF-S20-0-12IN	FASED-CSF-S21-0-13IN	FASED-CSF-S21-0-13INFD	FASED-CSF-S22E-0-20IN
	Sample Date	01/17/00	01/11/00	01/11/00	01/17/00	01/17/00	01/17/00	01/17/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		85 J	25 U	450 U	50	96	150 J	76
Dichlorobiphenyl		6.6 UJ	4.9 U	89 U	5.6 U	5.9 U	6.7 UJ	5.7 U
Heptachlorobiphenyl		51 J	15 U	270 U	13 J	15 J	31 J	49
Hexachlorobiphenyl		13 UJ	10 U	180 U	11 U	12 U	14 UJ	12 U
Monochlorobiphenyl		6.6 UJ	4.9 U	89 U	5.6 U	5.9 U	6.7 UJ	5.7 U
Nonachlorobiphenyl		32 J	25 U	250 J	28 U	37	50 J	28 J
Octachlorobiphenyl		6.6 J	15 U	270 U	17 U	18 U	14 J	5.8 J
Pentachlorobiphenyl		720 J	10 U	140 J	300	310	420 J	680
Tetrachlorobiphenyl		340 J	10 U	180 U	93	65	110 J	250
Trichlorobiphenyl		8.3 J	4.9 U	89 U	5.6 U	5.9 U	6.7 UJ	6.4
Total PCBs		1242.9	ND	390	456	523	775	1095.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSF-S23-0-15IN	FASED-CSF-S24W-0-13IN	FASED-CSF-S25E-0-10IN	FASED-CSF-S26W-0-13IN	FASED-CSF-S27E-0-16IN	FASED-CSF-S28-0-10IN	FASED-CSF-S29W-0-10IN
Sample Date	01/17/00	01/17/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	93 J	32 J	190 J	75	98	460 J	24 UJ
Dichlorobiphenyl	6.3 UJ	6.5 U	7.2 UJ	5.4 U	6 U	61 UJ	4.8 UJ
Heptachlorobiphenyl	62 J	20 U	50 J	40	110	260 J	15 UJ
Hexachlorobiphenyl	13 UJ	13 U	19 J	11 U	12 U	120 UJ	9.8 UJ
Monochlorobiphenyl	6.3 UJ	6.5 U	7.2 UJ	5.4 U	6 U	61 UJ	4.8 UJ
Nonachlorobiphenyl	35 J	33 U	67 J	26 J	33	270 J	24 UJ
Octachlorobiphenyl	21 J	20 U	20 J	11 J	27	180 UJ	15 UJ
Pentachlorobiphenyl	770 J	160	550 J	330	1100	3700 J	9.8 UJ
Tetrachlorobiphenyl	400 J	13 U	150 J	91	420	1600 J	9.8 UJ
Trichlorobiphenyl	16 J	6.5 U	7.2 UJ	5.4 U	17	61 UJ	4.8 UJ
Total PCBs	1397	192	1046	573	1805	6290	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	FASED-CSF-S30N-0-8IN	FASED-CSF-S31N-0-13IN	FASED-CSF-S32S-0-11IN	FASED-CSF-S32S-0-11INFD	FASED-CSF-S33-0-13IN	FASED-CSF-S34S-0-14IN	FASED-CSF-S35S-0-21IN
Sample Date	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	02/02/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	15 J	560 UJ	130 U	250 U	24 J	120 U	120 U
Dichlorobiphenyl	5.2 UJ	110 UJ	26 U	50 U	6.1 U	24 U	23 U
Heptachlorobiphenyl	16 UJ	330 UJ	78 U	150 U	14 J	74 U	69 U
Hexachlorobiphenyl	10 UJ	220 UJ	52 U	100 U	6.4 J	49 U	46 U
Monochlorobiphenyl	5.2 UJ	110 UJ	26 U	50 U	6.1 U	24 U	23 U
Nonachlorobiphenyl	20 J	560 UJ	130 U	250 U	31 U	120 U	120 U
Octachlorobiphenyl	16 UJ	330 UJ	78 U	150 U	18 U	74 U	69 U
Pentachlorobiphenyl	10 UJ	220 UJ	87	100 U	78	49 U	46 U
Tetrachlorobiphenyl	10 UJ	220 UJ	52 U	100 U	9.3 J	49 U	46 U
Trichlorobiphenyl	5.2 UJ	110 UJ	26 U	50 U	6.1 U	24 U	23 U
Total PCBs	35	ND	87	ND	131.7	ND	ND

NOTES: *U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.*

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	FASED-CSF-S36N-0-12IN	FASED-CSF-S36N-0-12INFD	FASED-CSF-S37N-0-13IN	FASED-CSF-S38S-0-14IN	FASED-CSF-S39S-0-26IN	FASED-CSF-S3E-0-6IN	FASED-CSF-S4-0-7IN
	Sample Date	01/18/00	01/18/00	01/18/00	01/19/00	01/19/00	01/11/00	01/11/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		25	250 U	50 U	15 J	60	22 U	22 U
Dichlorobiphenyl		4.9 U	48 U	9.8 U	4.6 U	6.1 U	4.4 U	4.4 U
Heptachlorobiphenyl		40	150 U	30 U	8.1 J	20	14 U	13 U
Hexachlorobiphenyl		10 U	98 U	13 J	9.3 U	12 U	9 U	8.9 U
Monochlorobiphenyl		4.9 U	48 U	9.8 U	4.6 U	6.1 UJ	4.4 U	4.4 U
Nonachlorobiphenyl		25 U	250 U	50 U	23 U	22 J	22 U	22 U
Octachlorobiphenyl		23	150 U	30 U	14 U	18 UJ	14 U	13 U
Pentachlorobiphenyl		170	98 U	20	140	340 J	9 U	8.9 U
Tetrachlorobiphenyl		39	98 U	20 U	100	120 J	9 U	8.9 U
Trichlorobiphenyl		4.9 U	48 U	9.8 U	7.4	6.1 U	4.4 U	4.4 U
Total PCBs		297	ND	33	270.5	562	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 6-1
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSF-S40-0-20IN	FASED-CSF-S5W-0-10IN	FASED-CSF-S6E-0-10IN	FASED-CSF-S7E-0-11IN	FASED-CSF-S8-0-15IN	FASED-CSF-S9-0-11IN
	Sample Date	01/19/00	01/11/00	01/11/00	01/11/00	01/12/00	01/12/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl		46 UJ	24 U	24 U	23 U	24 U	29 U
Dichlorobiphenyl		9.2 UJ	4.8 U	4.7 U	4.5 U	4.8 U	5.7 U
Heptachlorobiphenyl		28 UJ	14 U	14 U	14 U	15 U	17 U
Hexachlorobiphenyl		19 UJ	9.7 U	9.6 U	9.2 U	9.8 U	12 U
Monochlorobiphenyl		9.2 UJ	4.8 U	4.7 U	4.5 U	4.8 U	5.7 U
Nonachlorobiphenyl		46 UJ	10 J	24 U	23 U	24 U	29 U
Octachlorobiphenyl		28 UJ	14 U	14 U	14 U	15 U	17 U
Pentachlorobiphenyl		23 J	9.7 U	9.6 U	9.2 U	9.8 U	12 U
Tetrachlorobiphenyl		19 UJ	9.7 U	9.6 U	9.2 U	9.8 U	12 U
Trichlorobiphenyl		9.2 UJ	4.8 U	4.7 U	4.5 U	4.8 U	5.7 U
Total PCBs		23	10	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-BPL-S1-0-10IN	FASED-BPL-S1-0-10INEB	FASED-BPL-S2-0-10IN	FASED-BPL-S3-0-8IN	FASED-BPL-S4-0-10IN	FASED-BPL-S5-0-9IN	FASED-BPL-S6-0-11IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00
	Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		9.9	0.02 U	15	14	13	13	15
Zinc		380	0.02 U	230	300	360	280	220

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

Compound	Sample ID	FASED-BPL-S6-0-11INFD	FASED-BPL-S7-0-9IN	FASED-BPL-S8-0-9IN	FASED-CSB-S10W-0-9IN	FASED-CSB-S10W-0-9INFD	FASED-CSB-S1W-0-25IN	FASED-CSB-S2-0-23IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/02/00	02/02/00	02/01/00	02/01/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Copper		19	18	21	1800	670	2200	19000
Zinc		450	410	490	800	260	3600	25000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSB-S3-0-26IN	FASED-CSB-S4W-0-23IN	FASED-CSB-S5-0-22IN	FASED-CSB-S6-0-20IN	FASED-CSB-S7-0-18IN	FASED-CSB-S8E-0-22IN	FASED-CSB-S9W-0-9IN
	Sample Date	02/01/00	02/01/00	02/01/00	02/02/00	02/02/00	02/02/00	02/02/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		750	19000	4500	4900	480	6700	2000
Zinc		11000	21000	12000	20000	3100	12000	26000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

Sample ID	FASED-CSC-S1-0-13IN	FASED-CSC-S10-0-28IN	FASED-CSC-S11-0-25IN	FASED-CSC-S11-0-25INFD	FASED-CSC-S12E-0-18IN	FASED-CSC-S2-0-28IN	FASED-CSC-S2-0-28INFD
Sample Date	01/31/00	02/01/00	02/01/00	02/01/00	02/01/00	01/31/00	01/31/00
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound							
Copper	2200	640	13000	6900	16000	4500	6400
Zinc	2300	17000	37000	20000	4700	11000	13000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSC-S3-0-20IN	FASED-CSC-S4-0-22IN	FASED-CSC-S5W-0-26IN	FASED-CSC-S6W-0-26IN	FASED-CSC-S7-0-29IN	FASED-CSC-S8-0-16IN	FASED-CSC-S9-0-27IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	02/01/00	02/01/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		4200	5600	9500	2600	1400	14000	31000
Zinc		10000	11000	13000	3400	3100	33000	76000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSC-S9-0-27INFD	FASED-CSD-S1W-0-24IN	FASED-CSD-S2-0-15IN	FASED-CSD-S3-0-21IN	FASED-CSD-S4-0-23IN	FASED-CSD-S5-0-10IN	FASED-CSD-S6E-0-13IN
	Sample Date	02/01/00	02/02/00	01/27/00	01/27/00	01/27/00	01/31/00	01/28/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		3500	840	1500	1100	18000	220	1100
Zinc		6700	4500	1600	2000	19000	360	3300

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

Compound	Sample ID	FASED-CSD-S7-0-33IN	FASED-CSD-S8-0-29IN	FASED-CSD-S9W-0-23IN	FASED-CSE-S1-0-12IN	FASED-CSE-S10W-0-27IN	FASED-CSE-S11W-0-22IN	FASED-CSE-S12-0-21IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/19/00	01/24/00	01/24/00	01/24/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Copper		1400	770	3800	44	970	150	480
Zinc		13000	16000	6100	660	4200	1000	1400

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSE-S13E-0-21IN	FASED-CSE-S14W-0-31IN	FASED-CSE-S15-0-19IN	FASED-CSE-S16E-0-21IN	FASED-CSE-S17-0-28IN	FASED-CSE-S18-0-25IN	FASED-CSE-S19E-0-28IN
	Sample Date	01/24/00	01/24/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		120	13000	11000	3600	460	2200	1600
Zinc		1100	32000	150000	6600	3200	6800	3000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

Compound	Sample ID	FASED-CSE-S19E-0-28INFD	FASED-CSE-S20E-0-33IN	FASED-CSE-S21-0-28IN	FASED-CSE-S22E-0-26IN	FASED-CSE-S23-0-23IN	FASED-CSE-S24W-0-27IN	FASED-CSE-S25W-0-29IN
	Sample Date	01/25/00	01/25/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Copper		440	24	330	42	2900	810	690
Zinc		3100	2900	8600	2800	5200	2900	3100

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSE-S26E-0-12IN	FASED-CSE-S2W-0-19IN	FASED-CSE-S3-0-13IN	FASED-CSE-S4E-0-17IN	FASED-CSE-S5E-0-24IN	FASED-CSE-S6W-0-35IN	FASED-CSE-S6W-0-35INFD
	Sample Date	01/27/00	01/19/00	01/20/00	01/20/00	01/20/00	01/20/00	01/20/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		57	34	65	45	3900	440	6500
Zinc		810	490	590	500	8500	1900	11000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

Compound	Sample ID	FASED-CSE-S7W-0-13IN	FASED-CSE-S8-0-32IN	FASED-CSE-S9-0-31IN	FASED-CSF-S10-0-9IN	FASED-CSF-S11W-0-10IN	FASED-CSF-S12-0-15IN	FASED-CSF-S12-0-15INFD
	Sample Date	01/20/00	01/21/00	01/21/00	01/12/00	01/12/00	01/12/00	01/12/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Copper		35000	270	1200	33	88	80	72
Zinc		55000	4200	3900	250	690	680	690

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSF-S13W-0-15IN	FASED-CSF-S14W-0-15IN	FASED-CSF-S15W-0-28IN	FASED-CSF-S16-0-23IN	FASED-CSF-S17W-0-16IN	FASED-CSF-S18E-0-14IN	FASED-CSF-S19-0-13IN
	Sample Date	01/12/00	01/12/00	01/13/00	01/13/00	01/13/00	01/13/00	01/17/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		370	460	430	33	1400	1700	5400
Zinc		2100	3200	7700	3900	11000	9100	10000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSF-S1E-0-8IN	FASED-CSF-S2-0-7IN	FASED-CSF-S20-0-12IN	FASED-CSF-S21-0-13IN	FASED-CSF-S21-0-13INFD	FASED-CSF-S22E-0-20IN	FASED-CSF-S23-0-15IN
	Sample Date	01/11/00	01/11/00	01/17/00	01/17/00	01/17/00	01/17/00	01/17/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		17	12	710	920	1200	420	1400
Zinc		88	53	2300	4500	4400	4800	5400

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

Compound	Sample ID	FASED-CSF-S24W-0-13IN	FASED-CSF-S25E-0-10IN	FASED-CSF-S26W-0-13IN	FASED-CSF-S27E-0-16IN	FASED-CSF-S28-0-10IN	FASED-CSF-S29W-0-10IN	FASED-CSF-S30N-0-8IN
	Sample Date	01/17/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Copper		530	2500	930	1900	1200	26	54
Zinc		3200	6200	4700	6200	3200	510	850

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSF-S31N-0-13IN	FASED-CSF-S32S-0-11IN	FASED-CSF-S32S-0-11INFD	FASED-CSF-S33-0-13IN	FASED-CSF-S34S-0-14IN	FASED-CSF-S35S-0-21IN	FASED-CSF-S36N-0-12IN
	Sample Date	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	02/02/00	01/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		130	81	59	200	92	44	78
Zinc		2400	1600	1200	1700	3900	540	1000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

	Sample ID	FASED-CSF-S36N-0-12INFD	FASED-CSF-S37N-0-13IN	FASED-CSF-S38S-0-14IN	FASED-CSF-S39S-0-26IN	FASED-CSF-S3E-0-6IN	FASED-CSF-S4-0-7IN	FASED-CSF-S40-0-20IN
	Sample Date	01/18/00	01/18/00	01/19/00	01/19/00	01/11/00	01/11/00	01/19/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Copper		68	43	89	1100	17	10	39
Zinc		720	920	860	5300	63	50	690

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-2
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 7211/7951 Inorganic Data

Compound	Sample ID	FASED-CSF-S5W-0-10IN	FASED-CSF-S6E-0-10IN	FASED-CSF-S7E-0-11IN	FASED-CSF-S8-0-15IN	FASED-CSF-S9-0-11IN
	Sample Date	01/11/00	01/11/00	01/11/00	01/12/00	01/12/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Copper		13	17	21	34	78
Zinc		62	85	84	160	400

NOTES: *U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate*

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

Sample ID	FASED-BPL-S1-0-10IN	FASED-BPL-S1-0-10INEB	FASED-BPL-S2-0-10IN	FASED-BPL-S3-0-8IN	FASED-BPL-S4-0-10IN	FASED-BPL-S5-0-9IN	FASED-BPL-S6-0-11IN
Sample Date	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00
Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound							
Hydrocarbons as DRO	23	0.1 U	10	4.6	4	6.6	8.1
Hydrocarbons as GRO	0.28 U	0.05 U	0.33 U	0.37 U	0.33 U	0.31 U	0.33 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-BPL-S6-0-11INFD	FASED-BPL-S7-0-9IN	FASED-BPL-S8-0-9IN	FASED-CSB-S10W-0-9IN	FASED-CSB-S10W-0-9INFD	FASED-CSB-S1W-0-25IN	FASED-CSB-S2-0-23IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/02/00	02/02/00	02/01/00	02/01/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		6	4.3	5.5	370	150	2400	2000
Hydrocarbons as GRO		0.36 U	0.33 U	0.36 U	0.3 U	0.29 U	0.69	9.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSB-S3-0-26IN	FASED-CSB-S4W-0-23IN	FASED-CSB-S5-0-22IN	FASED-CSB-S6-0-20IN	FASED-CSB-S7-0-18IN	FASED-CSB-S8E-0-22IN	FASED-CSB-S9W-0-9IN
	Sample Date	02/01/00	02/01/00	02/01/00	02/02/00	02/02/00	02/02/00	02/02/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		700	800	2100	2500	67	460	5200
Hydrocarbons as GRO		8.8	0.37	0.44	3.9	3.7	0.34	1.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSC-S1-0-13IN	FASED-CSC-S10-0-28IN	FASED-CSC-S11-0-25IN	FASED-CSC-S11-0-25INFD	FASED-CSC-S12E-0-18IN	FASED-CSC-S2-0-28IN	FASED-CSC-S2-0-28INFD
	Sample Date	01/31/00	02/01/00	02/01/00	02/01/00	02/01/00	01/31/00	01/31/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		540	2400	2600	5200	930	800	1000
Hydrocarbons as GRO		0.34 U	0.52	8.3	9.8	2.1	4.1	0.51

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSC-S3-0-20IN	FASED-CSC-S4-0-22IN	FASED-CSC-S5W-0-26IN	FASED-CSC-S6W-0-26IN	FASED-CSC-S7-0-29IN	FASED-CSC-S8-0-16IN	FASED-CSC-S9-0-27IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	02/01/00	02/01/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		1200	1100	880	160	430	2500	5000
Hydrocarbons as GRO		1.4	2.3	3	0.15	6.3	2	9.6

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSC-S9-0-27INFD	FASED-CSD-S1W-0-24IN	FASED-CSD-S2-0-15IN	FASED-CSD-S3-0-21IN	FASED-CSD-S4-0-23IN	FASED-CSD-S5-0-10IN	FASED-CSD-S6E-0-13IN
	Sample Date	02/01/00	02/02/00	01/27/00	01/27/00	01/27/00	01/31/00	01/28/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		930	74	220	280	920	53	30
Hydrocarbons as GRO		6.3	0.41 U	0.36 U	0.4	0.66 U	0.34 U	0.42 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

Sample ID	FASED-CSD-S7-0-33IN	FASED-CSD-S8-0-29IN	FASED-CSD-S9W-0-23IN	FASED-CSE-S1-0-12IN	FASED-CSE-S10W-0-27IN	FASED-CSE-S11W-0-22IN	FASED-CSE-S12-0-21IN
Sample Date	01/31/00	01/31/00	01/31/00	01/19/00	01/24/00	01/24/00	01/24/00
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound							
Hydrocarbons as DRO	1200	750	61	98	870	320	410
Hydrocarbons as GRO	0.52	0.84	0.64	0.5 U	2.5	0.16	0.43 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSE-S13E-0-21IN	FASED-CSE-S14W-0-31IN	FASED-CSE-S15-0-19IN	FASED-CSE-S16E-0-21IN	FASED-CSE-S17-0-28IN	FASED-CSE-S18-0-25IN	FASED-CSE-S19E-0-28IN
	Sample Date	01/24/00	01/24/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		56	830	860	290	110	290	5.2 U
Hydrocarbons as GRO		0.36 U	0.36	0.32	0.27	0.27	0.3	0.39 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSE-S19E-0-28INFD	FASED-CSE-S20E-0-33IN	FASED-CSE-S21-0-28IN	FASED-CSE-S22E-0-26IN	FASED-CSE-S23-0-23IN	FASED-CSE-S24W-0-27IN	FASED-CSE-S25W-0-29IN
	Sample Date	01/25/00	01/25/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		41	4.8 U	310	15	3600	82	11
Hydrocarbons as GRO		0.31	0.27	0.45 U	0.37 U	0.26	0.18	0.35 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSE-S26E-0-12IN	FASED-CSE-S2W-0-19IN	FASED-CSE-S3-0-13IN	FASED-CSE-S4E-0-17IN	FASED-CSE-S5E-0-24IN	FASED-CSE-S6W-0-35IN	FASED-CSE-S6W-0-35INFD
	Sample Date	01/27/00	01/19/00	01/20/00	01/20/00	01/20/00	01/20/00	01/20/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		420	50	460	1100	2100	1700	1100
Hydrocarbons as GRO		0.22	0.43 U	0.42 U	0.38 U	5.6	8.4	4.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

Compound	Sample ID	FASED-CSE-S7W-0-13IN	FASED-CSE-S8-0-32IN	FASED-CSE-S9-0-31IN	FASED-CSF-S10-0-9IN	FASED-CSF-S11W-0-10IN	FASED-CSF-S12-0-15IN	FASED-CSF-S12-0-15INFD
	Sample Date	01/20/00	01/21/00	01/21/00	01/12/00	01/12/00	01/12/00	01/12/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Hydrocarbons as DRO		3200	550	930	17	11	16	17
Hydrocarbons as GRO		3.9	6	1.4	0.46 U	0.63 U	0.53 U	0.6 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSF-S13W-0-15IN	FASED-CSF-S14W-0-15IN	FASED-CSF-S15W-0-28IN	FASED-CSF-S16-0-23IN	FASED-CSF-S17W-0-16IN	FASED-CSF-S18E-0-14IN	FASED-CSF-S19-0-13IN
	Sample Date	01/12/00	01/12/00	01/13/00	01/13/00	01/13/00	01/13/00	01/17/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		77	91	31	18	100	110	74
Hydrocarbons as GRO		0.8 U	0.69 U	0.68 U	0.74 U	0.77 U	0.79 U	0.15

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSF-S1E-0-8IN	FASED-CSF-S2-0-7IN	FASED-CSF-S20-0-12IN	FASED-CSF-S21-0-13IN	FASED-CSF-S21-0-13INFD	FASED-CSF-S22E-0-20IN	FASED-CSF-S23-0-15IN
	Sample Date	01/11/00	01/11/00	01/17/00	01/17/00	01/17/00	01/17/00	01/17/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		7.4	920	50	87	25	50	49
Hydrocarbons as GRO		0.26	31	0.5 U	0.57 U	0.77 U	0.18	0.14

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSF-S24W-0-13IN	FASED-CSF-S25E-0-10IN	FASED-CSF-S26W-0-13IN	FASED-CSF-S27E-0-16IN	FASED-CSF-S28-0-10IN	FASED-CSF-S29W-0-10IN	FASED-CSF-S30N-0-8IN
	Sample Date	01/17/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		47	71	75	44	220	21	20
Hydrocarbons as GRO		0.14	0.13	0.52 U	0.53 U	0.17	0.38 U	0.1

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated.

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Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSF-S31N-0-13IN	FASED-CSF-S32S-0-11IN	FASED-CSF-S32S-0-11INFD	FASED-CSF-S33-0-13IN	FASED-CSF-S34S-0-14IN	FASED-CSF-S35S-0-21IN	FASED-CSF-S36N-0-12IN
	Sample Date	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	02/02/00	01/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		49	75	190	440	40	170	120
Hydrocarbons as GRO		0.38	0.43	0.11	0.26	0.17	0.35 U	0.15

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

	Sample ID	FASED-CSF-S36N-0-12INFD	FASED-CSF-S37N-0-13IN	FASED-CSF-S38S-0-14IN	FASED-CSF-S39S-0-26IN	FASED-CSF-S3E-0-6IN	FASED-CSF-S4-0-7IN	FASED-CSF-S40-0-20IN
	Sample Date	01/18/00	01/18/00	01/19/00	01/19/00	01/11/00	01/11/00	01/19/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Hydrocarbons as DRO		150	160	44	300	3.8	2.7	170
Hydrocarbons as GRO		0.1	0.44 U	0.33 U	0.55 U	0.3 U	0.56 U	0.35 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-3
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 8015 Total Petroleum Hydrocarbons Data

Compound	Sample ID	FASED-CSF-S5W-0-10IN	FASED-CSF-S6E-0-10IN	FASED-CSF-S7E-0-11IN	FASED-CSF-S8-0-15IN	FASED-CSF-S9-0-11IN
	Sample Date	01/11/00	01/11/00	01/11/00	01/12/00	01/12/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Hydrocarbons as DRO		3	3.4	5.7	8.6	24
Hydrocarbons as GRO		0.38 U	0.36 U	0.34 U	0.36 U	0.63 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

Compound	Sample ID	FASED-BPL-S1-0-10IN	FASED-BPL-S1-0-10INEB	FASED-BPL-S2-0-10IN	FASED-BPL-S3-0-8IN	FASED-BPL-S4-0-10IN	FASED-BPL-S5-0-9IN	FASED-BPL-S6-0-11IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00
	Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Total Organic Carbon		12000	1 U	3900	16000	7600	7600	11000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-BPL-S6-0-11INFD	FASED-BPL-S7-0-9IN	FASED-BPL-S8-0-9IN	FASED-CSB-S10W-0-9IN	FASED-CSB-S10W-0-9INFD	FASED-CSB-S1W-0-25IN	FASED-CSB-S2-0-23IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/02/00	02/02/00	02/01/00	02/01/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		16000	9200	11000	30000	28000	71000	60000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSB-S3-0-26IN	FASED-CSB-S4W-0-23IN	FASED-CSB-S5-0-22IN	FASED-CSB-S6-0-20IN	FASED-CSB-S7-0-18IN	FASED-CSB-S8E-0-22IN	FASED-CSB-S9W-0-9IN
	Sample Date	02/01/00	02/01/00	02/01/00	02/02/00	02/02/00	02/02/00	02/02/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		110000	25000	89000	130000	30000	53000	370000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

Compound	Sample ID	FASED-CSC-S1-0-13IN	FASED-CSC-S10-0-28IN	FASED-CSC-S11-0-25IN	FASED-CSC-S11-0-25INFD	FASED-CSC-S12E-0-18IN	FASED-CSC-S2-0-28IN	FASED-CSC-S2-0-28INFD
	Sample Date	01/31/00	02/01/00	02/01/00	02/01/00	02/01/00	01/31/00	01/31/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Total Organic Carbon		34000	75000	230000	150000	130000	74000	81000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSC-S3-0-20IN	FASED-CSC-S4-0-22IN	FASED-CSC-S5W-0-26IN	FASED-CSC-S6W-0-26IN	FASED-CSC-S7-0-29IN	FASED-CSC-S8-0-16IN	FASED-CSC-S9-0-27IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	02/01/00	02/01/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		120000	100000	72000	44000	47000	88000	26000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSC-S9-0-27INFD	FASED-CSD-S1W-0-24IN	FASED-CSD-S2-0-15IN	FASED-CSD-S3-0-21IN	FASED-CSD-S4-0-23IN	FASED-CSD-S5-0-10IN	FASED-CSD-S6E-0-13IN
	Sample Date	02/01/00	02/02/00	01/27/00	01/27/00	01/27/00	01/31/00	01/28/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		120000	31000	60000	69000	110000	170000	47000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSD-S7-0-33IN	FASED-CSD-S8-0-29IN	FASED-CSD-S9W-0-23IN	FASED-CSE-S1-0-12IN	FASED-CSE-S10W-0-27IN	FASED-CSE-S11W-0-22IN	FASED-CSE-S12-0-21IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/19/00	01/24/00	01/24/00	01/24/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		62000	58000	54000	39000	44000	51000	67000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSE-S13E-0-21IN	FASED-CSE-S14W-0-31IN	FASED-CSE-S15-0-19IN	FASED-CSE-S16E-0-21IN	FASED-CSE-S17-0-28IN	FASED-CSE-S18-0-25IN	FASED-CSE-S19E-0-28IN
	Sample Date	01/24/00	01/24/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		33000	47000	66000	52000	18000	52000	16000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

Compound	Sample ID	FASED-CSE-S19E-0-28INFD	FASED-CSE-S20E-0-33IN	FASED-CSE-S21-0-28IN	FASED-CSE-S22E-0-26IN	FASED-CSE-S23-0-23IN	FASED-CSE-S24W-0-27IN	FASED-CSE-S25W-0-29IN
	Sample Date	01/25/00	01/25/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Total Organic Carbon		32000	19000	35000	23000	49000	55000	15000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSE-S26E-0-12IN	FASED-CSE-S2W-0-19IN	FASED-CSE-S3-0-13IN	FASED-CSE-S4E-0-17IN	FASED-CSE-S5E-0-24IN	FASED-CSE-S6W-0-35IN	FASED-CSE-S6W-0-35INFD
	Sample Date	01/27/00	01/19/00	01/20/00	01/20/00	01/20/00	01/20/00	01/20/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		51000	42000	53000	14000	63000	89000	51000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSE-S7W-0-13IN	FASED-CSE-S8-0-32IN	FASED-CSE-S9-0-31IN	FASED-CSF-S10-0-9IN	FASED-CSF-S11W-0-10IN	FASED-CSF-S12-0-15IN	FASED-CSF-S12-0-15INFD
	Sample Date	01/20/00	01/21/00	01/21/00	01/12/00	01/12/00	01/12/00	01/12/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		89000	26000	74000	19000	23000	22000	17000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSF-S13W-0-15IN	FASED-CSF-S14W-0-15IN	FASED-CSF-S15W-0-28IN	FASED-CSF-S16-0-23IN	FASED-CSF-S17W-0-16IN	FASED-CSF-S18E-0-14IN	FASED-CSF-S19-0-13IN
	Sample Date	01/12/00	01/12/00	01/13/00	01/13/00	01/13/00	01/13/00	01/17/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		42000	43000	41000	34000	43000	56000	66000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSF-S1E-0-8IN	FASED-CSF-S2-0-7IN	FASED-CSF-S20-0-12IN	FASED-CSF-S21-0-13IN	FASED-CSF-S21-0-13INFD	FASED-CSF-S22E-0-20IN	FASED-CSF-S23-0-15IN
	Sample Date	01/11/00	01/11/00	01/17/00	01/17/00	01/17/00	01/17/00	01/17/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		21000	12000	52000	71000	32000	51000	73000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSF-S24W-0-13IN	FASED-CSF-S25E-0-10IN	FASED-CSF-S26W-0-13IN	FASED-CSF-S27E-0-16IN	FASED-CSF-S28-0-10IN	FASED-CSF-S29W-0-10IN	FASED-CSF-S30N-0-8IN
	Sample Date	01/17/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		30000	70000	68000	59000	56000	15000	30000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSF-S31N-0-13IN	FASED-CSF-S32S-0-11IN	FASED-CSF-S32S-0-11INFD	FASED-CSF-S33-0-13IN	FASED-CSF-S34S-0-14IN	FASED-CSF-S35S-0-21IN	FASED-CSF-S36N-0-12IN
	Sample Date	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	02/02/00	01/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		36000	38000	41000	44000	48000	25000	28000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

Data is not validated.

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File Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSF-S36N-0-12INFD	FASED-CSF-S37N-0-13IN	FASED-CSF-S38S-0-14IN	FASED-CSF-S39S-0-26IN	FASED-CSF-S3E-0-6IN	FASED-CSF-S4-0-7IN	FASED-CSF-S40-0-20IN
	Sample Date	01/18/00	01/18/00	01/19/00	01/19/00	01/11/00	01/11/00	01/19/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Total Organic Carbon		38000	23000	21000	53000	11000	11000	25000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Data is not validated.

O'BRIEN & GERE ENGINEERS, INC.

Table 6-4
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 9060 TOC Data

	Sample ID	FASED-CSF-S5W-0-10IN	FASED-CSF-S6E-0-10IN	FASED-CSF-S7E-0-11IN	FASED-CSF-S8-0-15IN	FASED-CSF-S9-0-11IN
	Sample Date	01/11/00	01/11/00	01/11/00	01/12/00	01/12/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound						
Total Organic Carbon		24000	14000	16000	20000	36000

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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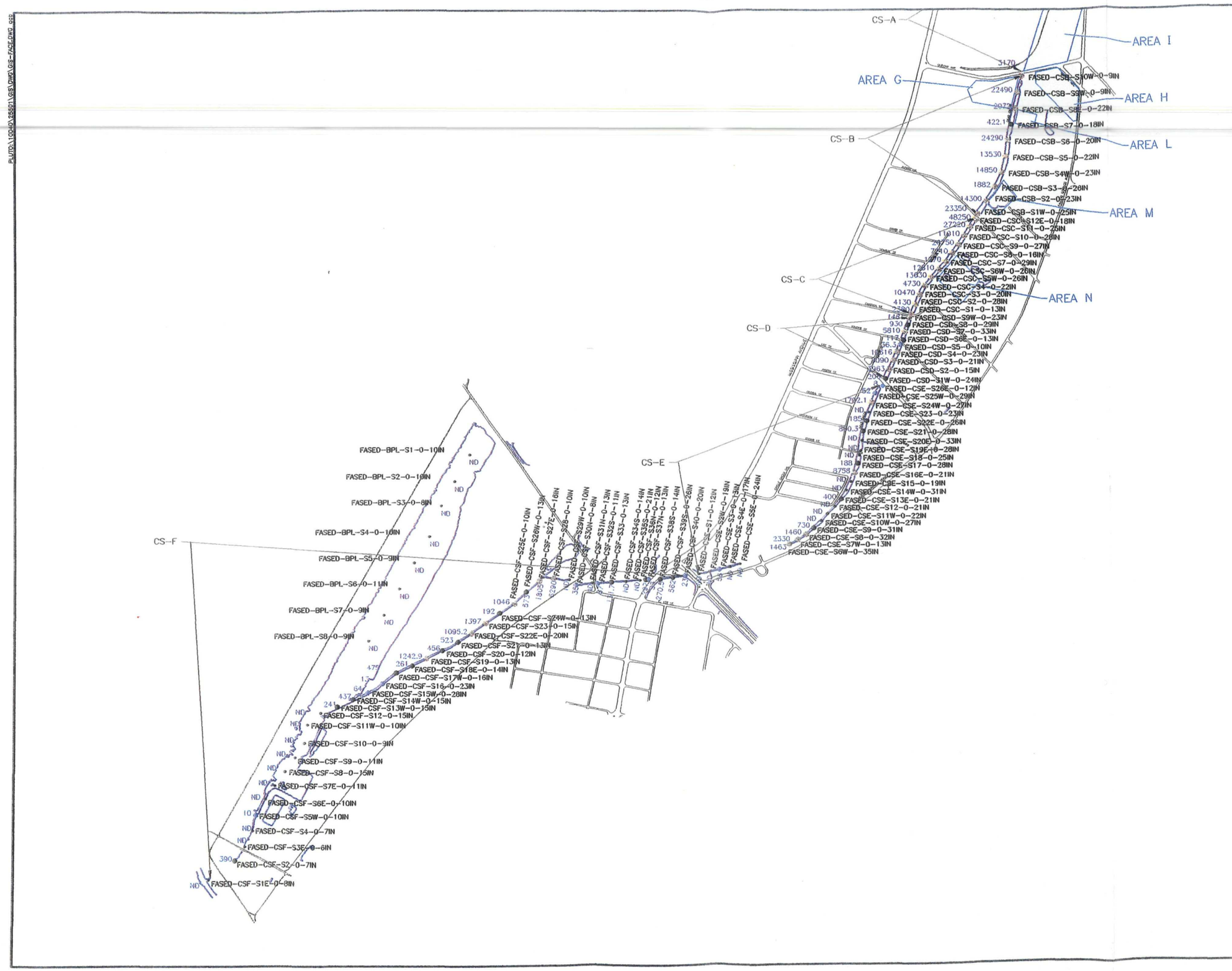

FIGURE 6-1

LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = ug/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

INDUSTRY SPECIFIC SEDMENTS TOTAL PCBs

600 0 600
SCALE IN FEET

FILE NO. 25501.FACE.A
August 2000

O'BRIEN & GERE ENGINEERS, INC.

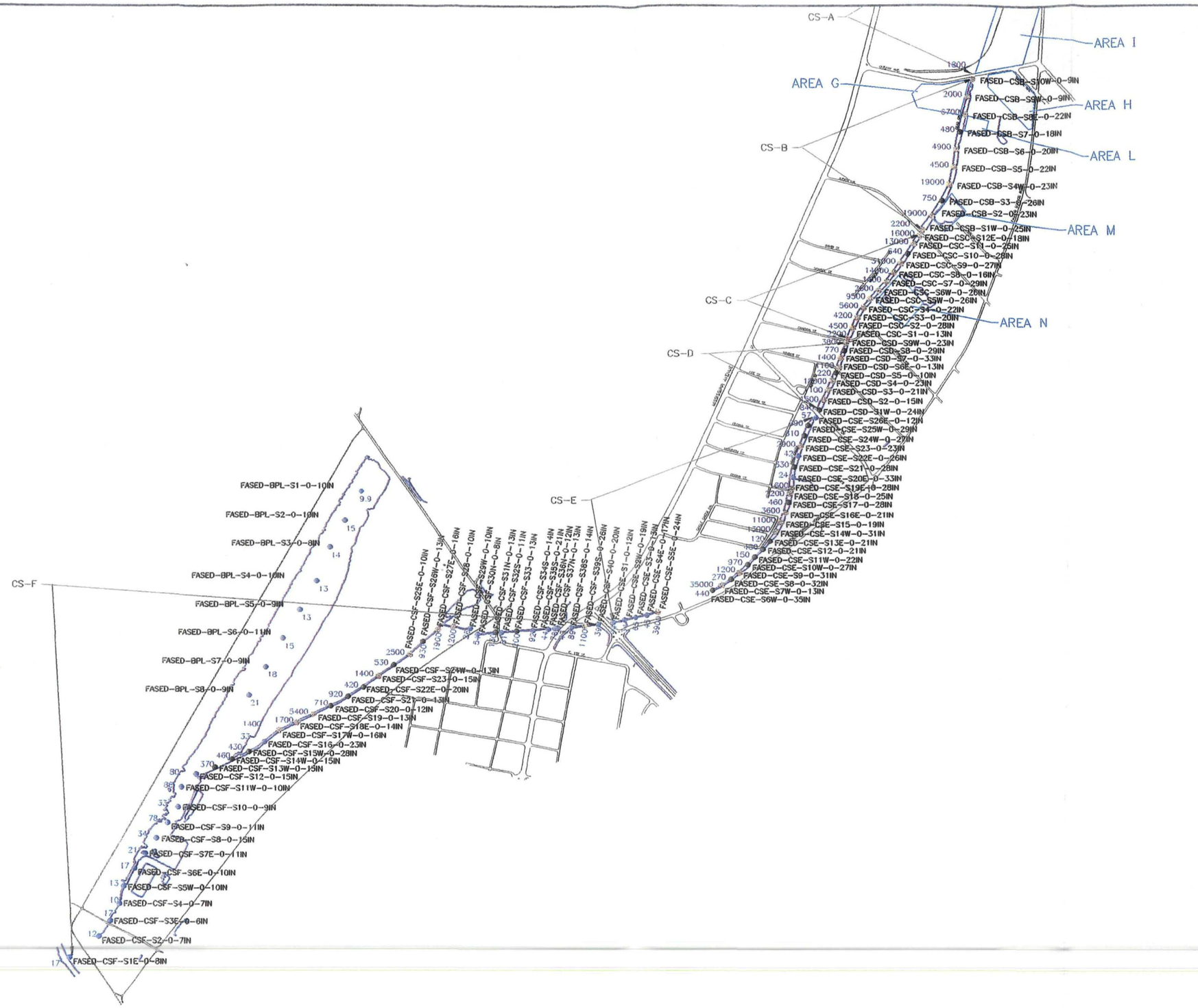

FIGURE 6-2

LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

INDUSTRY SPECIFIC SEDIMENTS COPPER

600 0 600
SCALE IN FEET

FILE NO. 25501.FASE.B
August 2000

O'BRIEN & GERE ENGINEERS, INC.

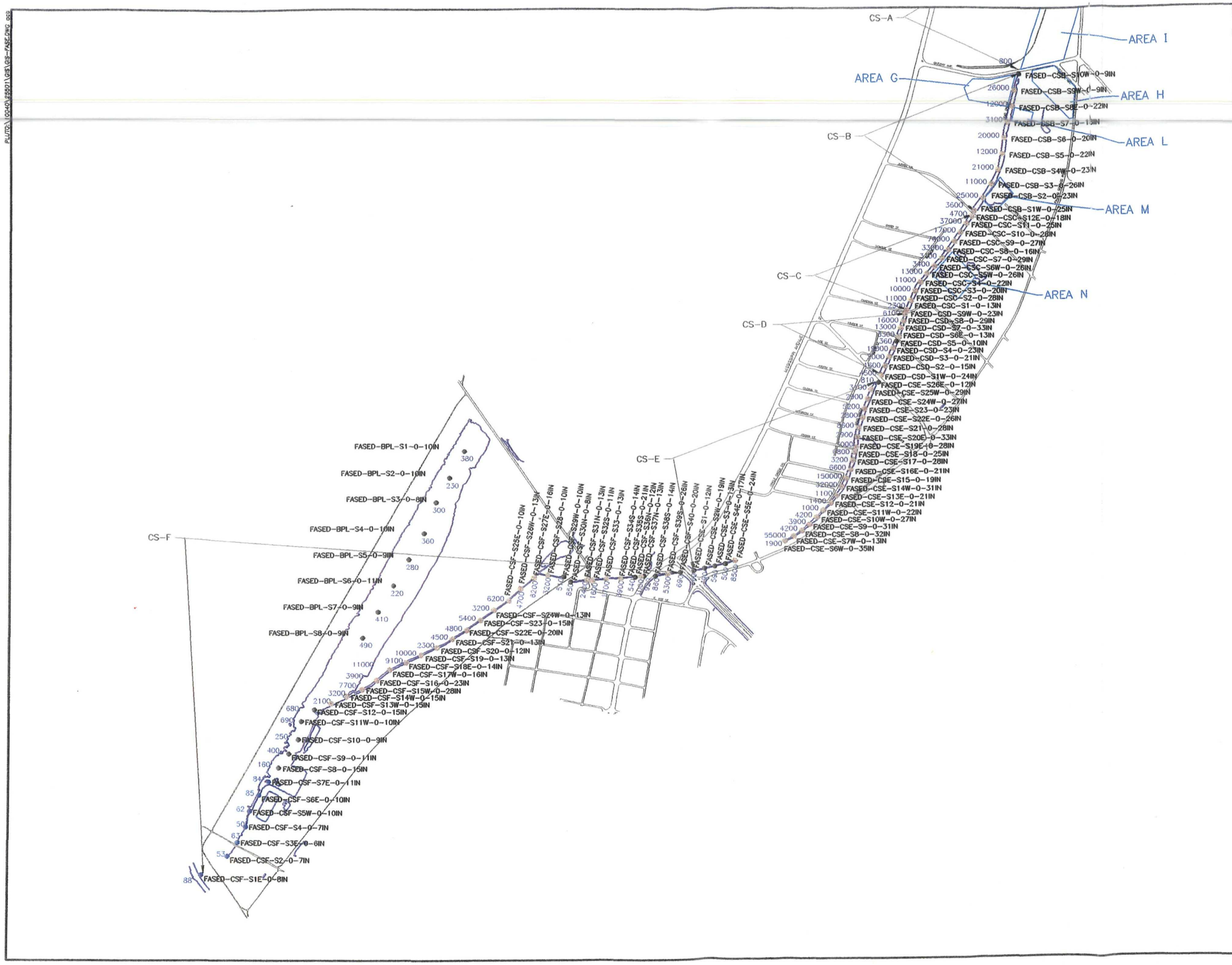

FIGURE 6-3

LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

INDUSTRY SPECIFIC SEDIMENTS ZINC

600 0 600
SCALE IN FEET

FILE NO. 25501.FASE.C
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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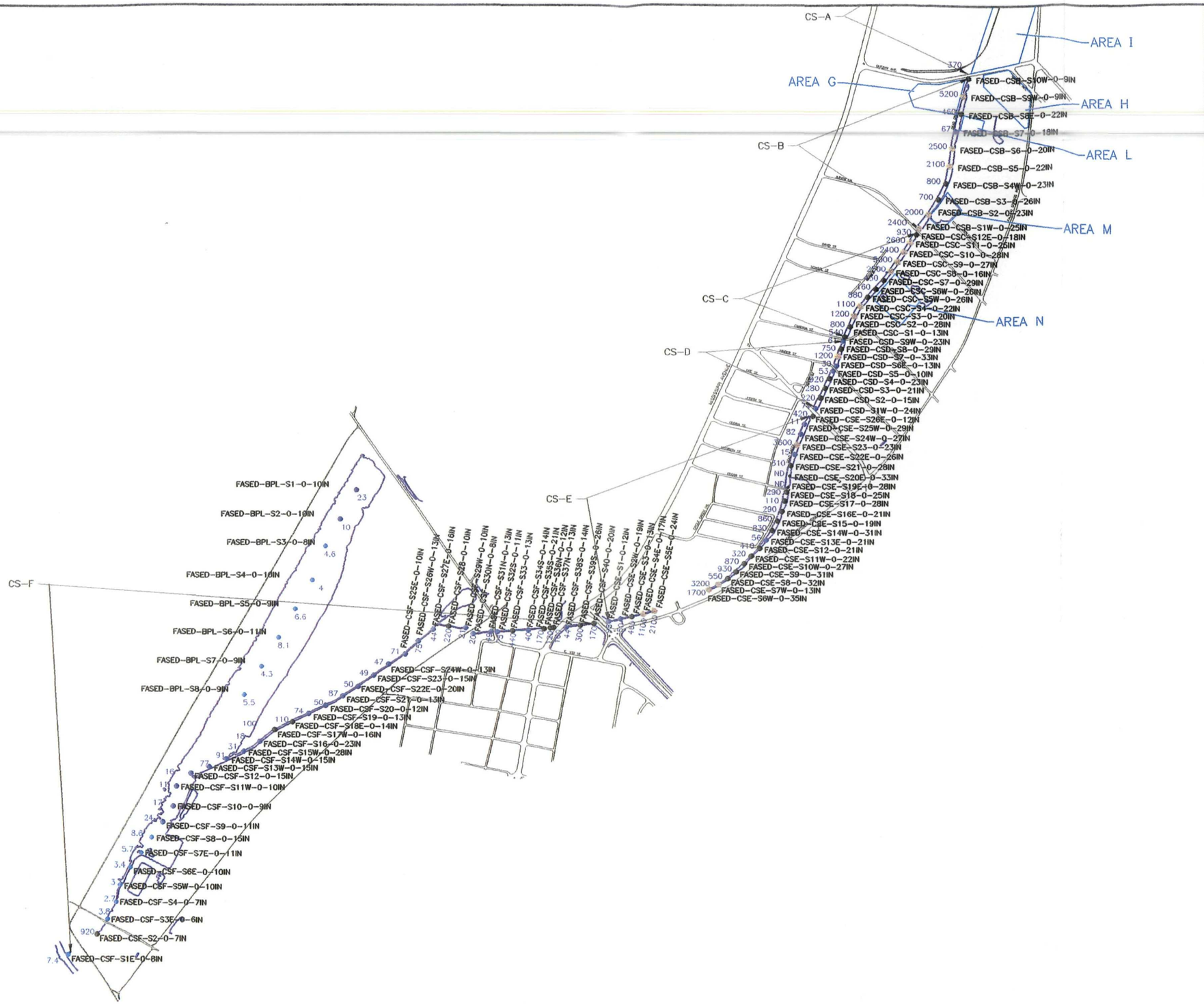

FIGURE 6-4

LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

INDUSTRY SPECIFIC SEDIMENTS DIESEL RANGE ORGANICS

600 0 600
SCALE IN FEET

FILE NO. 25501.FASE.D
August 2000

O'BRIEN & GERE ENGINEERS, INC.

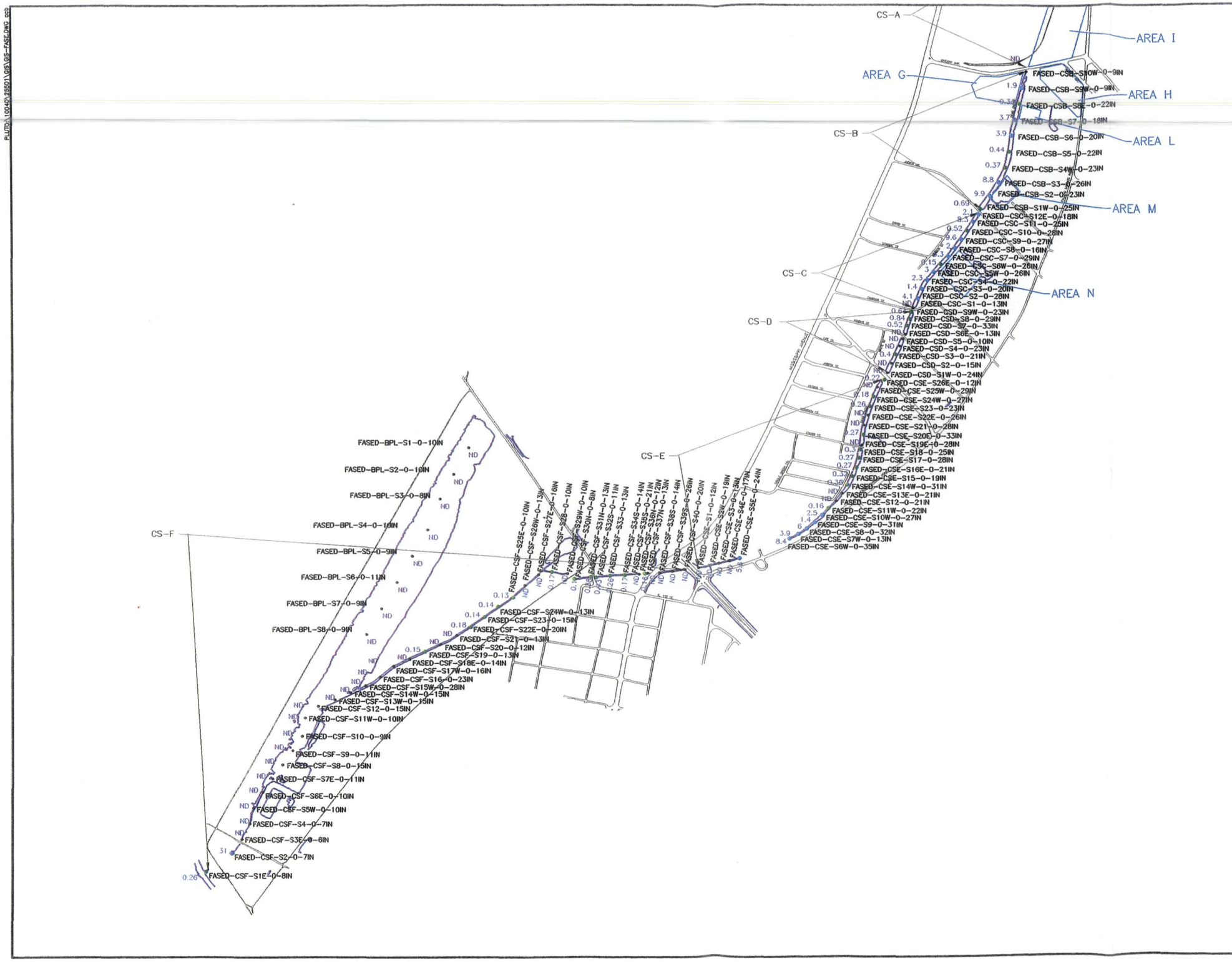

FIGURE 6-5

LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

INDUSTRY SPECIFIC SEDIMENTS GASOLINE RANGE ORGANICS

600 0 600
SCALE IN FEET

FILE NO. 25501.FASE.E
August 2000

O'BRIEN & GERE ENGINEERS, INC.

Appendix 5

Sauget Area 1 Support Sampling Plan

Broad-Scan Sediment Analyses

O'BRIEN & GERE ENGINEERS, INC.

Table 5-1
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
1,1,1-Trichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1,2,2-Tetrachloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1,2-Trichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1-Dichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1-Dichloroethene	24 UJ	19 UJ	23 UJ	27 UJ	10 U	7.9 U	5 U
1,2-Dichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,2-Dichloropropane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
2-Butanone (MEK)	130 UJ	100 UJ	130 UJ	140 UJ	57 U	43 U	25 U
2-Hexanone	130 UJ	100 UJ	130 UJ	140 UJ	57 U	43 U	25 U
4-Methyl-2-pentanone (MIBK)	130 UJ	100 UJ	130 UJ	140 UJ	57 U	43 U	25 U
Acetone	260 UJ	210 UJ	250 UJ	290 UJ	41 J	86 U	50 U
Benzene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	1.2 U
Bromodichloromethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Bromoform	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Bromomethane	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	9.8 U
Carbon disulfide	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Carbon tetrachloride	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Chlorobenzene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Chloroethane	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	10 U
Chloroform	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Chloromethane	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	10 U
Cis/Trans-1,2-Dichloroethene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Dibromochloromethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Ethylbenzene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Methylene chloride (Dichloromethane)	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	1.6 J
Styrene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Tetrachloroethene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Toluene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Trichloroethene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	2.7 U
Vinyl chloride	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	10 U
Xylenes, Total	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
cis-1,3-Dichloropropene	20 UJ	17 UJ	20 UJ	23 UJ	9.2 U	6.8 U	1 U
trans-1,3-Dichloropropene	20 UJ	17 UJ	20 UJ	23 UJ	9.2 U	6.8 U	5 U
Total VOCs	ND	ND	ND	ND	41	ND	1.6

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-1
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0 2FT	SED-CSB-S1-0 2FTFD	SED-CSB-S2-0 2FT	SED-CSB-S3-0 2FT	SED-CSC-S1-0 2FT
Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,1,1-Trichloroethane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1,2,2-Tetrachloroethane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1,2-Trichloroethane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1-Dichloroethane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1-Dichloroethene	8.9 U	5.0 U	24 UJ	18 UJ	18 UJ	35 UJ	25 UJ
1,2-Dichloroethane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,2-Dichloropropane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
2-Butanone (MEK)	48 U	25 U	130 UJ	99 UJ	98 UJ	190 UJ	31 J
2-Hexanone	48 U	25 U	130 UJ	99 UJ	21 J	190 UJ	130 UJ
4-Methyl-2-pentanone (MIBK)	48 U	25 U	130 UJ	99 UJ	98 UJ	190 UJ	130 UJ
Acetone	47 J	50 U	260 UJ	200 UJ	250 UJ	380 UJ	96 J
Benzene	9.6 U	1.2 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Bromodichloromethane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Bromoform	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Bromomethane	19 U	9.8 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Carbon disulfide	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Carbon tetrachloride	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Chlorobenzene	9.6 U	5.0 U	86 J	17 J	26 J	20 J	27 UJ
Chloroethane	19 U	10 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Chloroform	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Chloromethane	19 U	10 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Cis/Trans-1,2-Dichloroethene	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Dibromochloromethane	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Ethylbenzene	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Methylene chloride (Dichloromethane)	9.6 U	0.90 J	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Styrene	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Tetrachloroethene	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Toluene	6.4 J	5.0 U	26 UJ	20 UJ	20 J	38 UJ	27 UJ
Trichloroethene	9.6 U	2.7 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Vinyl chloride	19 U	10 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Xylenes, Total	9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
cis-1,3-Dichloropropene	7.7 U	1.0 U	21 UJ	16 UJ	16 UJ	30 UJ	22 UJ
trans-1,3-Dichloropropene	7.7 U	5.0 U	21 UJ	16 UJ	16 UJ	30 UJ	22 UJ
Total VOCs	53.4	0.9	86	17	67	20	127

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-1
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0 2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0 2FT	SED-CSE-S1-0 2FT	SED-CSE-S2-0 2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,1,1-Trichloroethane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1,2,2-Tetrachloroethane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1,2-Trichloroethane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1-Dichloroethane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1-Dichloroethene	20 UJ	27 UJ	37 UJ	38 UJ	19 UJ	27 UJ	17 UJ
1,2-Dichloroethane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,2-Dichloropropane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
2-Butanone (MEK)	37 J	28 J	65 J	56 J	30 J	150 UJ	94 UJ
2-Hexanone	110 UJ	140 UJ	200 UJ	200 UJ	100 UJ	150 UJ	94 UJ
4-Methyl-2-pentanone (MIBK)	110 UJ	140 UJ	200 UJ	200 UJ	100 UJ	150 UJ	94 UJ
Acetone	130 J	100 J	190 J	170 J	84 J	430 UJ	190 UJ
Benzene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Bromodichloromethane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Bromoform	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Bromomethane	45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Carbon disulfide	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Carbon tetrachloride	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Chlorobenzene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Chloroethane	45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Chloroform	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Chloromethane	45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Cis/Trans-1,2-Dichloroethene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Dibromochloromethane	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Ethylbenzene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Methylene chloride (Dichloromethane)	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Styrene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Tetrachloroethene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Toluene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Trichloroethene	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Vinyl chloride	45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Xylenes, Total	22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
cis-1,3-Dichloropropene	18 UJ	23 UJ	32 UJ	33 UJ	16 UJ	24 UJ	15 UJ
trans-1,3-Dichloropropene	18 UJ	23 UJ	32 UJ	33 UJ	16 UJ	24 UJ	15 UJ
Total VOCs	167	128	255	226	114	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-1
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,1,1-Trichloroethane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1,2,2-Tetrachloroethane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1,2-Trichloroethane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1-Dichloroethane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1-Dichloroethene	23 UJ	16 UJ	38 UJ	24 UJ	38 UJ	8.7 U	17 UJ
1,2-Dichloroethane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,2-Dichloropropane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
2-Butanone (MEK)	520 J	85 UJ	200 UJ	130 UJ	270 UJ	47 U	40 J
2-Hexanone	130 UJ	85 UJ	200 UJ	130 UJ	210 UJ	47 U	94 UJ
4-Methyl-2-pentanone (MIBK)	130 UJ	85 UJ	200 UJ	130 UJ	210 UJ	47 U	94 UJ
Acetone	1200 J	200 UJ	410 UJ	260 UJ	920 UJ	95 U	160 J
Benzene	25 UJ	17 UJ	41 UJ	26 UJ	17 J	9.5 U	19 UJ
Bromodichloromethane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Bromoform	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Bromomethane	50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Carbon disulfide	25 UJ	17 UJ	41 UJ	26 UJ	49 J	9.5 U	19 UJ
Carbon tetrachloride	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Chlorobenzene	25 UJ	17 UJ	41 UJ	26 UJ	100 J	9.5 U	19 UJ
Chloroethane	50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Chloroform	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Chloromethane	50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Cis/Trans-1,2-Dichloroethene	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Dibromochloromethane	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Ethylbenzene	25 UJ	17 UJ	41 UJ	11 J	42 UJ	9.5 U	19 UJ
Methylene chloride (Dichloromethane)	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Styrene	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Tetrachloroethene	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Toluene	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Trichloroethene	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Vinyl chloride	50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Xylenes, Total	25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
cis-1,3-Dichloropropene	20 UJ	14 UJ	33 UJ	20 UJ	33 UJ	7.6 U	15 UJ
trans-1,3-Dichloropropene	20 UJ	14 UJ	33 UJ	20 UJ	33 UJ	7.6 U	15 UJ
Total VOCs	1720	ND	ND	11	166	ND	200

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-1
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

Sample ID	SED-RA2-S1-0 2FT	SED-RA2-S1-0 2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0 2FT
Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound				
1,1,1-Trichloroethane	13 UJ	5 U	13 UJ	11 UJ
1,1,2,2-Tetrachloroethane	13 UJ	5 U	13 UJ	11 UJ
1,1,2-Trichloroethane	13 UJ	5 U	13 UJ	11 UJ
1,1-Dichloroethane	13 UJ	5 U	13 UJ	11 UJ
1,1-Dichloroethene	12 UJ	5 U	12 UJ	10 UJ
1,2-Dichloroethane	13 UJ	5 U	13 UJ	11 UJ
1,2-Dichloropropane	13 UJ	5 U	13 UJ	11 UJ
2-Butanone (MEK)	11 J	25 U	67 UJ	14 J
2-Hexanone	65 UJ	25 U	67 UJ	56 UJ
4-Methyl-2-pentanone (MIBK)	65 UJ	25 U	67 UJ	56 UJ
Acetone	38 J	50 U	130 UJ	52 J
Benzene	13 UJ	1.2 U	13 UJ	11 UJ
Bromodichloromethane	13 UJ	5 U	13 UJ	11 UJ
Bromoform	13 UJ	5 U	13 UJ	11 UJ
Bromomethane	26 UJ	9.8 U	27 UJ	22 UJ
Carbon disulfide	13 UJ	5 U	13 UJ	11 UJ
Carbon tetrachloride	13 UJ	5 U	13 UJ	11 UJ
Chlorobenzene	13 UJ	5 U	13 UJ	11 UJ
Chloroethane	26 UJ	10 U	27 UJ	22 UJ
Chloroform	13 UJ	5 U	13 UJ	11 UJ
Chloromethane	26 UJ	10 U	27 UJ	22 UJ
Cis/Trans-1,2-Dichloroethene	13 UJ	5 U	13 UJ	11 UJ
Dibromochloromethane	13 UJ	5 U	13 UJ	11 UJ
Ethylbenzene	13 UJ	5 U	13 UJ	11 UJ
Methylene chloride (Dichloromethane)	13 UJ	4.7 U	13 UJ	11 UJ
Styrene	13 UJ	5 U	13 UJ	11 UJ
Tetrachloroethene	13 UJ	5 U	13 UJ	11 UJ
Toluene	13 UJ	5 U	13 UJ	11 UJ
Trichloroethene	13 UJ	2.7 U	13 UJ	11 UJ
Vinyl chloride	26 UJ	10 U	27 UJ	22 UJ
Xylenes, Total	13 UJ	5 U	13 UJ	11 UJ
cis-1,3-Dichloropropene	10 UJ	1 U	11 UJ	9.1 UJ
trans-1,3-Dichloropropene	10 UJ	5 U	11 UJ	9.1 UJ
Total VOCs	49	ND	ND	66

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
1,2,4-Trichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
1,2-Dichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
1,3-Dichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
1,4-Dichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,2'-Oxybis(1-Chloropropane)	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,4,5-Trichlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,4,6-Trichlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	2.1 U
2,4-Dichlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2,4-Dinitrophenol	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	14 U
2,4-Dinitrotoluene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,6-Dinitrotoluene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Chloronaphthalene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Chlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Methylnaphthalene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Methylphenol (o-cresol)	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Nitroaniline	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	50 U
2-Nitrophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
3,3'-Dichlorobenzidine	910 UJ	910 UJ	960 UJ	910 UJ	480 U	450 U	20 U
3-Methylphenol/4-Methylphenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
3-Nitroaniline	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 UJ	1100 U	50 U
4,6-Dinitro-2-methylphenol	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	13 U
4-Bromophenylphenyl ether	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	1 U
4-Chloro-3-methylphenol	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
4-Chloroaniline	910 UJ	910 UJ	960 UJ	910 UJ	480 U	450 U	20 U
4-Chlorophenylphenyl ether	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
4-Nitroaniline	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	50 U
4-Nitrophenol	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	50 U
Acenaphthene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Acenaphthylene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Anthracene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Benzo(a)anthracene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Benzo(a)pyrene	250 UJ	250 UJ	260 UJ	250 UJ	130 U	120 U	10 U
Benzo(b)fluoranthene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Benzo(g,h,i)perylene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	0.76 J
Benzo(k)fluoranthene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0 2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
Butylbenzylphthalate	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Carbazole	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	3.4 U
Chrysene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Di-n-butylphthalate	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Di-n-octylphthalate	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Dibenzo(a,h)anthracene	250 UJ	250 UJ	260 UJ	250 UJ	130 UJ	120 U	10 U
Dibenzofuran	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Diethylphthalate	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Dimethylphthalate	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Fluoranthene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Fluorene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	1 U
Hexachlorobenzene	190 UJ	190 UJ	200 UJ	190 UJ	100 U	95 U	10 U
Hexachlorobutadiene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Hexachlorocyclopentadiene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Hexachloroethane	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	1.9 U
Indeno(1,2,3-cd)pyrene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	0.61 J
Isophorone	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
N-Nitroso-di-n-propylamine	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
N-Nitrosodiphenylamine	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	5 U
Naphthalene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Nitrobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	3.5 U
Pentachlorophenol	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	5 U
Phenanthrene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Phenol	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Pyrene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
bis(2-Chloroethoxy)methane	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
bis(2-Chloroethyl)ether	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
bis(2-Ethylhexyl)phthalate	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	1.8 U
Total Semivolatiles	ND	ND	ND	ND	ND	ND	1.37

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0.2FTEB	SED-CSB-S1-0 2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0 2FT	SED-CSC-S1-0.2FT
Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,2,4-Trichlorobenzene	230 U	10 U	2600 UJ	2200 UJ	770 J	3300 UJ	3400 UJ
1,2-Dichlorobenzene	230 U	10 U	370 J	2200 UJ	2600 UJ	3300 UJ	3400 UJ
1,3-Dichlorobenzene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
1,4-Dichlorobenzene	230 U	10 U	1000 J	2200 UJ	520 J	3300 UJ	3400 UJ
2,2'-Oxybis(1-Chloropropane)	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4,5-Trichlorophenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4,6-Trichlorophenol	230 U	2.1 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4-Dichlorophenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4-Dinitrophenol	1200 U	14 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
2,4-Dinitrotoluene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,6-Dinitrotoluene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Chloronaphthalene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Chlorophenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Methylnaphthalene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Methylphenol (o-cresol)	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Nitroaniline	1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
2-Nitrophenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
3,3'-Dichlorobenzidine	450 U	20 U	5000 UJ	4200 UJ	5000 UJ	6300 UJ	6600 UJ
3-Methylphenol/4-Methylphenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
3-Nitroaniline	1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
4,6-Dinitro-2-methylphenol	1200 U	13 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
4-Bromophenylphenyl ether	230 U	1.0 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
4-Chloro-3-methylphenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
4-Chloroaniline	450 U	20 U	5000 UJ	4200 UJ	830 J	6300 UJ	6600 UJ
4-Chlorophenylphenyl ether	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
4-Nitroaniline	1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
4-Nitrophenol	1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
Acenaphthene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Acenaphthylene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Anthracene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Benzo(a)anthracene	230 U	10 U	960 J	600 J	870 J	680 J	530 J
Benzo(a)pyrene	120 U	10 U	1500 J	770 J	1200 J	730 J	1800 UJ
Benzo(b)fluoranthene	230 U	10 U	1700 J	1100 J	2000 J	1100 J	680 J
Benzo(g,h,i)perylene	230 U	10 U	1600 J	710 J	1600 J	790 J	3400 UJ
Benzo(k)fluoranthene	230 U	10 U	1500 J	920 J	1600 J	920 J	3400 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	BSSED-PDC-US-N-0-20DNFD	SED-CSB-0.2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Butylbenzylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Carbazole	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Chrysene	230 U	10 U	1600 J	990 J	1800 J	1100 J	640 J
Di-n-butylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Di-n-octylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Dibenzo(a,h)anthracene	120 U	10 U	1400 UJ	1200 UJ	1400 UJ	1700 UJ	1800 UJ
Dibenzofuran	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Diethylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Dimethylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Fluoranthene	230 U	10 U	2300 J	1700 J	1800 J	1900 J	780 J
Fluorene	230 U	1.0 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 U
Hexachlorobenzene	96 U	10 U	1000 UJ	900 UJ	1000 UJ	1300 UJ	1400 UJ
Hexachlorobutadiene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Hexachlorocyclopentadiene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Hexachloroethane	230 U	1.9 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Indeno(1,2,3-cd)pyrene	230 U	10 U	1300 J	2200 UJ	1000 J	3300 UJ	3400 UJ
Isophorone	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
N-Nitroso-di-n-propylamine	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
N-Nitrosodiphenylamine	230 U	5.0 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Naphthalene	230 U	10 U	2600 UJ	2200 UJ	380 J	3300 UJ	3400 UJ
Nitrobenzene	230 U	3.5 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Pentachlorophenol	1200 U	5.0 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
Phenanthrene	230 U	10 U	2600 UJ	810 J	930 J	910 J	530 J
Phenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Pyrene	230 U	10 U	3000 J	1800 J	2200 J	2000 J	940 J
bis(2-Chloroethoxy)methane	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
bis(2-Chloroethyl)ether	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
bis(2-Ethylhexyl)phthalate	230 U	1.8 U	3000 J	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Total Semivolatiles	ND	ND	19830	9400	17500	10130	4100

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,2,4-Trichlorobenzene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
1,2-Dichlorobenzene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
1,3-Dichlorobenzene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
1,4-Dichlorobenzene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,2'-Oxybis(1-Chloropropane)	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4,5-Trichlorophenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4,6-Trichlorophenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4-Dichlorophenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4-Dinitrophenol	14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
2,4-Dinitrotoluene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,6-Dinitrotoluene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Chloronaphthalene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Chlorophenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Methylnaphthalene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Methylphenol (o-cresol)	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Nitroaniline	14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
2-Nitrophenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
3,3'-Dichlorobenzidine	5500 UJ	7600 UJ	8400 UJ	9100 UJ	5700 UJ	1200 UJ	860 UJ
3-Methylphenol/4-Methylphenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
3-Nitroaniline	14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
4,6-Dinitro-2-methylphenol	14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
4-Bromophenylphenyl ether	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
4-Chloro-3-methylphenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
4-Chloroaniline	5500 UJ	7600 UJ	8400 UJ	9100 UJ	5700 UJ	1200 UJ	860 UJ
4-Chlorophenylphenyl ether	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
4-Nitroaniline	14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
4-Nitrophenol	14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
Acenaphthene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Acenaphthylene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Anthracene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Benzo(a)anthracene	2800 UJ	890 J	4300 UJ	4700 UJ	420 J	100 J	120 J
Benzo(a)pyrene	1500 UJ	1400 J	2300 UJ	2500 UJ	560 J	150 J	170 J
Benzo(b)fluoranthene	600 J	2000 J	970 J	780 J	910 J	170 J	260 J
Benzo(g,h,i)perylene	2800 UJ	1400 J	4300 UJ	4700 UJ	660 J	140 J	170 J
Benzo(k)fluoranthene	390 J	1200 J	660 J	520 J	610 J	600 UJ	170 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Butylbenzylphthalate	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Carbazole	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Chrysene	500 J	1500 J	790 J	670 J	740 J	190 J	220 J
Di-n-butylphthalate	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Di-n-octylphthalate	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Dibenzo(a,h)anthracene	1500 UJ	2100 UJ	2300 UJ	2500 UJ	1600 UJ	320 UJ	240 UJ
Dibenzofuran	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Diethylphthalate	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Dimethylphthalate	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Fluoranthene	800 J	2200 J	1200 J	1000 J	1200 J	320 J	390 J
Fluorene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachlorobenzene	1200 UJ	1600 UJ	1800 UJ	1900 UJ	1200 UJ	250 UJ	180 UJ
Hexachlorobutadiene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachlorocyclopentadiene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachloroethane	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Indeno(1,2,3-cd)pyrene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	130 J	150 J
Isophorone	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
N-Nitroso-di-n-propylamine	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
N-Nitrosodiphenylamine	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Naphthalene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Nitrobenzene	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Pentachlorophenol	14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
Phenanthrene	320 J	840 J	4300 UJ	4700 UJ	410 J	130 J	120 J
Phenol	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Pyrene	660 J	2000 J	950 J	970 J	1100 J	250 J	310 J
bis(2-Chloroethoxy)methane	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
bis(2-Chloroethyl)ether	2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
bis(2-Ethylhexyl)phthalate	2800 UJ	3900 UJ	4300 UJ	4700 UJ	1200 J	600 UJ	260 J
Total Semivolatiles	3270	13430	4570	3940	7810	1580	2340

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0 2FT	SED-RA1-S1-0 2FT	SED-RA1-S2-0 2FT
Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,2,4-Trichlorobenzene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
1,2-Dichlorobenzene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
1,3-Dichlorobenzene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
1,4-Dichlorobenzene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,2'-Oxybis(1-Chloropropane)	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4,5-Trichlorophenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4,6-Trichlorophenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4-Dichlorophenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4-Dinitrophenol	2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
2,4-Dinitrotoluene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,6-Dinitrotoluene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Chloronaphthalene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Chlorophenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Methylnaphthalene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Methylphenol (o-cresol)	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Nitroaniline	2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
2-Nitrophenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
3,3'-Dichlorobenzidine	1100 UJ	770 UJ	1700 UJ	1200 UJ	9700 UJ	590 U	880 UJ
3-Methylphenol/4-Methylphenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
3-Nitroaniline	2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
4,6-Dinitro-2-methylphenol	2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
4-Bromophenylphenyl ether	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
4-Chloro-3-methylphenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
4-Chloroaniline	1100 UJ	770 UJ	1700 UJ	1200 UJ	2400 J	590 U	880 UJ
4-Chlorophenylphenyl ether	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
4-Nitroaniline	2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
4-Nitrophenol	2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
Acenaphthene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Acenaphthylene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Anthracene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Benzo(a)anthracene	340 J	400 UJ	890 UJ	620 UJ	1300 J	300 U	450 UJ
Benzo(a)pyrene	420 J	210 UJ	470 UJ	330 UJ	1500 J	160 U	240 UJ
Benzo(b)fluoranthene	520 J	400 UJ	890 UJ	620 UJ	1500 J	300 U	450 UJ
Benzo(g,h,i)perylene	350 J	400 UJ	890 UJ	620 UJ	1300 J	300 U	450 UJ
Benzo(k)fluoranthene	600 J	400 UJ	890 UJ	620 UJ	1800 J	300 U	450 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Butylbenzylphthalate	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Carbazole	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Chrysene	660 J	74 J	890 UJ	620 UJ	1600 J	300 U	450 UJ
Di-n-butylphthalate	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Di-n-octylphthalate	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Dibenzo(a,h)anthracene	300 UJ	210 UJ	470 UJ	330 UJ	2600 UJ	160 U	240 UJ
Dibenzofuran	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Diethylphthalate	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Dimethylphthalate	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Fluoranthene	1200 J	120 J	890 UJ	130 J	3000 J	300 U	450 UJ
Fluorene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Hexachlorobenzene	230 UJ	160 UJ	370 UJ	260 UJ	2000 UJ	120 U	190 UJ
Hexachlorobutadiene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Hexachlorocyclopentadiene	R	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Hexachloroethane	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Indeno(1,2,3-cd)pyrene	430 J	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Isophorone	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
N-Nitroso-di-n-propylamine	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
N-Nitrosodiphenylamine	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Naphthalene	560 UJ	400 UJ	890 UJ	620 UJ	1100 J	300 U	450 UJ
Nitrobenzene	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Pentachlorophenol	2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
Phenanthrene	510 J	400 UJ	890 UJ	620 UJ	1300 J	300 U	450 UJ
Phenol	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Pyrene	1000 J	400 UJ	890 UJ	620 UJ	2200 J	300 U	450 UJ
bis(2-Chloroethoxy)methane	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
bis(2-Chloroethyl)ether	560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
bis(2-Ethylhexyl)phthalate	250 J	400 UJ	890 UJ	620 UJ	1400 J	300 U	450 UJ
Total Semivolatiles	6280	194	ND	130	20400	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	SED-RA2-S1-0 2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0 2FTFD	SED-RA2-S2-0 2FT
Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound				
1,2,4-Trichlorobenzene	350 UJ	10 U	350 UJ	370 UJ
1,2-Dichlorobenzene	350 UJ	10 U	350 UJ	370 UJ
1,3-Dichlorobenzene	350 UJ	10 U	350 UJ	370 UJ
1,4-Dichlorobenzene	350 UJ	10 U	350 UJ	370 UJ
2,2'-Oxybis(1-Chloropropane)	350 UJ	10 U	350 UJ	370 UJ
2,4,5-Trichlorophenol	350 UJ	10 U	350 UJ	370 UJ
2,4,6-Trichlorophenol	350 UJ	2.1 U	350 UJ	370 UJ
2,4-Dichlorophenol	350 UJ	10 U	350 UJ	370 UJ
2,4-Dinitrophenol	1800 UJ	14 U	1800 UJ	1800 UJ
2,4-Dinitrotoluene	350 UJ	10 U	350 UJ	370 UJ
2,6-Dinitrotoluene	350 UJ	10 U	350 UJ	370 UJ
2-Chloronaphthalene	350 UJ	10 U	350 UJ	370 UJ
2-Chlorophenol	350 UJ	10 U	350 UJ	370 UJ
2-Methylnaphthalene	350 UJ	10 U	350 UJ	370 UJ
2-Methylphenol (o-cresol)	350 UJ	10 U	350 UJ	370 UJ
2-Nitroaniline	1800 UJ	50 U	1800 UJ	1800 UJ
2-Nitrophenol	350 UJ	10 U	350 UJ	370 UJ
3,3'-Dichlorobenzidine	680 UJ	20 U	690 UJ	710 UJ
3-Methylphenol/4-Methylphenol	350 UJ	10 U	350 UJ	370 UJ
3-Nitroaniline	1800 UJ	50 U	1800 UJ	1800 UJ
4,6-Dinitro-2-methylphenol	1800 UJ	13 U	1800 UJ	1800 UJ
4-Bromophenylphenyl ether	350 UJ	1 U	350 UJ	370 UJ
4-Chloro-3-methylphenol	350 UJ	10 U	350 UJ	370 UJ
4-Chloroaniline	680 UJ	1.2 J	690 UJ	710 UJ
4-Chlorophenylphenyl ether	350 UJ	10 U	350 UJ	370 UJ
4-Nitroaniline	1800 UJ	50 U	1800 UJ	1800 UJ
4-Nitrophenol	1800 UJ	50 U	1800 UJ	1800 UJ
Acenaphthene	350 UJ	10 U	350 UJ	370 UJ
Acenaphthylene	350 UJ	10 U	350 UJ	370 UJ
Anthracene	350 UJ	10 U	350 UJ	370 UJ
Benzo(a)anthracene	350 UJ	10 U	350 UJ	370 UJ
Benzo(a)pyrene	190 UJ	10 U	190 UJ	190 UJ
Benzo(b)fluoranthene	350 UJ	10 U	350 UJ	370 UJ
Benzo(g,h,i)perylene	350 UJ	10 U	350 UJ	370 UJ
Benzo(k)fluoranthene	350 UJ	10 U	350 UJ	370 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-2
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	SED-RA2-S1-0 2FT	SED-RA2-S1-0 2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound				
Butylbenzylphthalate	350 UJ	10 U	350 UJ	370 UJ
Carbazole	350 UJ	10 U	350 UJ	370 UJ
Chrysene	350 UJ	10 U	350 UJ	370 UJ
Di-n-butylphthalate	350 UJ	10 U	350 UJ	370 UJ
Di-n-octylphthalate	350 UJ	10 U	350 UJ	370 UJ
Dibenzo(a,h)anthracene	190 UJ	10 U	190 UJ	190 UJ
Dibenzofuran	350 UJ	10 U	350 UJ	370 UJ
Diethylphthalate	350 UJ	10 U	350 UJ	370 UJ
Dimethylphthalate	350 UJ	10 U	350 UJ	370 UJ
Fluoranthene	350 UJ	10 U	350 UJ	370 UJ
Fluorene	350 UJ	1 U	350 UJ	370 UJ
Hexachlorobenzene	140 UJ	10 U	140 UJ	150 UJ
Hexachlorobutadiene	350 UJ	10 U	350 UJ	370 UJ
Hexachlorocyclopentadiene	350 UJ	10 U	350 UJ	370 UJ
Hexachloroethane	350 UJ	1.9 U	350 UJ	370 UJ
Indeno(1,2,3-cd)pyrene	350 UJ	10 U	350 UJ	370 UJ
Isophorone	350 UJ	10 U	350 UJ	370 UJ
N-Nitroso-di-n-propylamine	350 UJ	10 U	350 UJ	370 UJ
N-Nitrosodiphenylamine	350 UJ	5 U	350 UJ	370 UJ
Naphthalene	350 UJ	10 U	350 UJ	370 UJ
Nitrobenzene	350 UJ	3.5 U	350 UJ	370 UJ
Pentachlorophenol	1800 UJ	5 U	1800 UJ	1800 UJ
Phenanthrene	350 UJ	10 U	350 UJ	370 UJ
Phenol	350 UJ	10 U	350 UJ	370 UJ
Pyrene	350 UJ	10 U	350 UJ	370 UJ
bis(2-Chloroethoxy)methane	350 UJ	10 U	350 UJ	370 UJ
bis(2-Chloroethyl)ether	350 UJ	10 U	350 UJ	370 UJ
bis(2-Ethylhexyl)phthalate	350 UJ	1.8 U	350 UJ	370 UJ
Total Semivolatiles	ND	1.2	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 5-3
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
Decachlorobiphenyl	230 UJ	46 UJ	49 UJ	46 UJ	24 U	23 U	0.5 U
Dichlorobiphenyl	46 UJ	9.2 UJ	9.7 UJ	9.2 UJ	4.8 UJ	4.5 U	0.1 U
Heptachlorobiphenyl	140 UJ	28 UJ	29 UJ	28 UJ	15 UJ	14 U	0.3 U
Hexachlorobiphenyl	95 UJ	19 UJ	20 UJ	19 UJ	9.8 UJ	9.2 U	0.2 U
Monochlorobiphenyl	46 UJ	9.2 UJ	9.7 UJ	9.2 UJ	4.8 UJ	4.5 U	0.1 U
Nonachlorobiphenyl	230 UJ	46 UJ	49 UJ	46 UJ	24 UJ	23 U	0.5 U
Octachlorobiphenyl	140 UJ	28 UJ	29 UJ	28 UJ	15 UJ	14 U	0.3 U
Pentachlorobiphenyl	95 UJ	19 UJ	20 UJ	19 UJ	9.8 UJ	9.2 U	0.2 U
Tetrachlorobiphenyl	95 UJ	19 UJ	20 UJ	19 UJ	9.8 UJ	9.2 U	0.2 U
Trichlorobiphenyl	46 UJ	9.2 UJ	9.7 UJ	9.2 UJ	4.8 UJ	4.5 U	0.1 U
Total PCBs	ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-3
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	23 U	0.50 U	2500 UJ	2300 UJ	3400 J	2300 J	290 UJ
Dichlorobiphenyl	4.6 U	0.10 U	500 UJ	450 UJ	640 J	500 J	57 UJ
Heptachlorobiphenyl	14 U	0.30 U	980 J	1400 UJ	5300 J	1300 J	170 UJ
Hexachlorobiphenyl	9.3 U	0.20 U	5200 J	2600 J	21000 J	7600 J	160 J
Monochlorobiphenyl	4.6 U	0.10 U	500 UJ	450 UJ	500 UJ	670 UJ	57 UJ
Nonachlorobiphenyl	23 U	0.50 U	2500 UJ	2300 UJ	2500 UJ	3400 UJ	290 UJ
Octachlorobiphenyl	14 U	0.30 U	1500 UJ	1400 UJ	1800 J	2000 UJ	170 UJ
Pentachlorobiphenyl	9.3 U	0.20 U	34000 J	7500 J	66000 J	19000 J	110 UJ
Tetrachlorobiphenyl	9.3 U	0.20 U	88000 J	15000 J	98000 J	26000 J	110 UJ
Trichlorobiphenyl	4.6 U	0.10 U	34000 J	4800 J	30000 J	11000 J	57 UJ
Total PCBs	ND	ND	162180	29900	226140	67700	160

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-3
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Decachlorobiphenyl	2900 UJ	3900 UJ	170 J	230 J	300 UJ	140 J	440 UJ
Dichlorobiphenyl	570 UJ	770 UJ	87 UJ	96 UJ	59 UJ	12 UJ	87 UJ
Heptachlorobiphenyl	1700 UJ	2300 UJ	260 UJ	290 UJ	180 UJ	49 J	260 UJ
Hexachlorobiphenyl	720 J	2000 J	97 J	400 J	250 J	130 J	170 UJ
Monochlorobiphenyl	570 UJ	770 UJ	87 UJ	96 UJ	59 UJ	12 UJ	87 UJ
Nonachlorobiphenyl	2900 UJ	3900 UJ	440 UJ	480 UJ	300 UJ	60 UJ	440 UJ
Octachlorobiphenyl	1700 UJ	2300 UJ	260 UJ	290 UJ	180 UJ	36 UJ	260 UJ
Pentachlorobiphenyl	2200 J	2600 J	430 J	520 J	480 J	650 J	170 UJ
Tetrachlorobiphenyl	1200 UJ	1600 UJ	180 UJ	190 UJ	120 UJ	60 J	170 UJ
Trichlorobiphenyl	570 UJ	770 UJ	87 UJ	96 UJ	59 UJ	9.2 J	87 UJ
Total PCBs	2920	4600	697	1150	730	1038.2	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-3
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		56 UJ	39 UJ	88 UJ	310 UJ	5100 UJ	30 U	45 UJ
Dichlorobiphenyl		11 UJ	7.7 UJ	17 UJ	60 UJ	1000 UJ	5.9 U	8.9 UJ
Heptachlorobiphenyl		33 UJ	23 UJ	53 UJ	180 UJ	3000 UJ	18 U	27 UJ
Hexachlorobiphenyl		22 UJ	22 J	17 J	120 UJ	3000 J	12 U	18 UJ
Monochlorobiphenyl		11 UJ	7.7 UJ	17 UJ	60 UJ	1000 UJ	5.9 U	8.9 UJ
Nonachlorobiphenyl		56 UJ	39 UJ	88 UJ	310 UJ	5100 UJ	30 U	45 UJ
Octachlorobiphenyl		33 UJ	23 UJ	53 UJ	180 UJ	3000 UJ	18 U	27 UJ
Pentachlorobiphenyl		22 UJ	61 J	66 J	120 UJ	4800 J	12 U	18 UJ
Tetrachlorobiphenyl		22 UJ	16 UJ	35 UJ	120 UJ	3100 J	12 U	18 UJ
Trichlorobiphenyl		11 UJ	7.7 UJ	17 UJ	60 UJ	1300 J	5.9 U	8.9 UJ
Total PCBs		ND	83	83	ND	12200	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-3
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

Sample ID	SED-RA2-S1-0 2FT	SED-RA2-S1-0 2FTEB	SED-RA2-S1-0 2FTFD	SED-RA2-S2-0.2FT
Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound				
Decachlorobiphenyl	35 UJ	0.5 U	35 UJ	36 UJ
Dichlorobiphenyl	6.9 UJ	0.1 U	6.9 UJ	7.1 UJ
Heptachlorobiphenyl	21 UJ	0.3 U	21 UJ	22 UJ
Hexachlorobiphenyl	14 UJ	0.2 U	14 UJ	14 UJ
Monochlorobiphenyl	6.9 UJ	0.1 U	6.9 UJ	7.1 UJ
Nonachlorobiphenyl	35 UJ	0.5 U	35 UJ	36 UJ
Octachlorobiphenyl	21 UJ	0.3 U	21 UJ	22 UJ
Pentachlorobiphenyl	14 UJ	0.2 U	14 UJ	14 UJ
Tetrachlorobiphenyl	14 UJ	0.2 U	14 UJ	14 UJ
Trichlorobiphenyl	6.9 UJ	0.1 U	6.9 UJ	7.1 UJ
Total PCBs	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-4
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
4,4'-DDD	18 UJ	9.1 UJ	19 UJ	18 UJ	4.8 U	4.5 U	0.1 U
4,4'-DDE	1.4 J	0.81 J	3.2 J	1.6 J	4.8 U	4.5 U	0.1 U
4,4'-DDT	1.9 J	0.38 J	19 UJ	1.4 J	4.8 U	4.5 U	0.1 U
Aldrin	9.4 UJ	4.7 UJ	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.05 U
Alpha Chlordane	0.52 J	0.43 J	3.2 J	1.2 J	2.4 U	2.3 U	0.05 U
Dieldrin	0.3 J	0.21 J	0.5 J	18 UJ	4.8 UJ	4.5 U	0.1 U
Endosulfan I	9.4 UJ	0.38 J	2.8 J	1 J	2.4 U	2.3 U	0.05 U
Endosulfan II	18 UJ	9.1 UJ	19 UJ	18 UJ	4.8 U	4.5 U	0.1 U
Endosulfan sulfate	18 UJ	0.94 J	1.4 J	18 UJ	4.8 U	4.5 U	0.1 U
Endrin	18 UJ	9.1 UJ	19 UJ	18 UJ	4.8 UJ	4.5 U	0.1 U
Endrin aldehyde	1.6 J	1.1 J	2.2 J	1.2 J	4.8 U	4.5 U	0.1 U
Endrin ketone	1 J	0.43 J	19 UJ	18 UJ	4.8 U	4.5 U	0.1 U
Gamma Chlordane	0.89 J	0.58 J	3 J	9.4 UJ	2.4 U	2.3 U	0.05 U
Heptachlor	9.4 UJ	4.7 UJ	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.05 U
Heptachlor epoxide	9.4 UJ	0.2 J	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.05 U
Methoxychlor	94 UJ	47 UJ	99 UJ	94 UJ	24 U	23 U	0.5 U
Toxaphene	940 UJ	470 UJ	990 UJ	940 UJ	240 U	230 U	5 U
alpha-BHC	2.8 UJ	1.4 UJ	2.9 UJ	2.8 UJ	0.72 U	0.68 U	0.039 U
beta-BHC	2.8 UJ	1.4 UJ	2.9 UJ	2.8 UJ	0.72 UJ	0.68 U	0.014 U
delta-BHC	2.8 UJ	1.4 UJ	2.9 UJ	2.8 UJ	2.4 U	2.3 U	0.012 U
gamma-BHC (Lindane)	9.4 UJ	0.16 J	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.019 U
Total Pesticides	7.61	5.62	16.3	6.4	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-4
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0 2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0 2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
4,4'-DDD	4.5 U	0.10 U	170 J	130 J	970 UJ	650 UJ	28 J
4,4'-DDE	4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	51 J
4,4'-DDT	4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Aldrin	2.3 U	0.050 U	1200 J	1000 J	980 J	410 J	25 J
Alpha Chlordane	2.3 U	0.050 U	500 UJ	440 UJ	500 UJ	330 UJ	37 J
Dieldrin	4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Endosulfan I	2.3 U	0.050 U	500 UJ	440 UJ	500 UJ	330 UJ	70 UJ
Endosulfan II	4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Endosulfan sulfate	4.5 U	0.0014 J	970 UJ	84 J	130 J	98 J	9 J
Endrin	4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Endrin aldehyde	4.5 U	0.10 U	520 J	860 UJ	970 UJ	650 UJ	140 UJ
Endrin ketone	4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Gamma Chlordane	2.3 U	0.050 U	760 J	680 J	500 UJ	330 UJ	110 J
Heptachlor	2.3 U	0.050 U	500 UJ	440 UJ	500 J	330 UJ	70 UJ
Heptachlor epoxide	2.3 U	0.050 U	500 UJ	440 UJ	500 UJ	330 UJ	70 UJ
Methoxychlor	23 U	0.50 U	5000 UJ	4400 UJ	5000 UJ	3300 UJ	700 UJ
Toxaphene	230 U	5.0 U	50000 UJ	44000 UJ	50000 UJ	33000 UJ	7000 UJ
alpha-BHC	0.69 U	0.039 U	150 UJ	130 UJ	150 UJ	98 UJ	21 UJ
beta-BHC	0.69 U	0.014 U	150 UJ	130 UJ	150 UJ	98 UJ	21 UJ
delta-BHC	2.3 U	0.0096 J	150 UJ	130 UJ	150 UJ	98 UJ	21 UJ
gamma-BHC (Lindane)	2.3 U	0.019 U	500 UJ	440 UJ	500 UJ	330 UJ	70 UJ
Total Pesticides	ND	0.011	2650	1894	1610	508	260

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-4
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

Sample ID	SED-CSC-S2-0 2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0 2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0 2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
4,4'-DDD	270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	120 UJ	86 UJ
4,4'-DDE	270 UJ	380 UJ	20 J	14 J	4.4 J	15 J	3.4 J
4,4'-DDT	270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	9.3 J	86 UJ
Aldrin	42 J	64 J	9.6 J	11 J	2.7 J	60 UJ	44 UJ
Alpha Chlordane	54 J	120 J	26 J	14 J	30 UJ	6.9 J	2.5 J
Dieldrin	270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	9.4 J	1.7 J
Endosulfan I	140 UJ	200 UJ	44 UJ	48 UJ	30 UJ	60 UJ	44 UJ
Endosulfan II	270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	12 J	2.3 J
Endosulfan sulfate	16 J	380 UJ	86 UJ	94 UJ	58 UJ	10 J	86 UJ
Endrin	270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	4.6 J	86 UJ
Endrin aldehyde	270 UJ	380 UJ	86 UJ	94 UJ	16 J	22 J	3.6 J
Endrin ketone	270 UJ	380 UJ	86 UJ	94 UJ	5.5 J	17 J	6.8 J
Gamma Chlordane	140 J	250 J	49 J	29 J	6.7 J	14 J	5.9 J
Heptachlor	9.1 J	9.7 J	44 UJ	48 UJ	30 UJ	60 UJ	44 UJ
Heptachlor epoxide	140 UJ	200 UJ	44 UJ	48 UJ	30 UJ	5.2 J	44 UJ
Methoxychlor	1400 UJ	2000 UJ	440 UJ	480 UJ	300 UJ	39 J	440 UJ
Toxaphene	14000 UJ	20000 UJ	4400 UJ	4800 UJ	3000 UJ	6000 UJ	4400 UJ
alpha-BHC	41 UJ	58 UJ	13 UJ	14 UJ	8.8 UJ	18 UJ	13 UJ
beta-BHC	41 UJ	58 UJ	13 UJ	14 UJ	8.8 UJ	18 UJ	13 UJ
delta-BHC	41 UJ	18 J	16 J	14 UJ	1.5 J	1.3 J	13 UJ
gamma-BHC (Lindane)	140 UJ	200 UJ	44 UJ	48 UJ	30 UJ	60 UJ	44 UJ
Total Pesticides	261.1	461.7	120.6	68	36.8	165.7	26.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-4
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
4,4'-DDD	22 UJ	3.8 J	35 UJ	24 UJ	770 UJ	5.8 U	8.8 UJ
4,4'-DDE	4.3 J	11 J	8.1 J	2.5 J	110 J	5.8 U	8.8 UJ
4,4'-DDT	22 UJ	4.5 J	35 UJ	24 UJ	44 J	5.8 U	8.8 UJ
Aldrin	11 UJ	4.1 J	18 UJ	12 UJ	120 J	3 U	4.6 UJ
Alpha Chlordane	3.9 J	4.6 J	5.3 J	0.84 J	400 UJ	3 U	4.6 UJ
Dieldrin	5.4 J	9.3 J	35 UJ	0.99 J	770 UJ	5.8 U	8.8 UJ
Endosulfan I	11 UJ	5.7 J	2 J	1.2 J	400 UJ	3 U	4.6 UJ
Endosulfan II	22 UJ	8.1 J	5.5 J	1.8 J	770 UJ	5.8 U	8.8 UJ
Endosulfan sulfate	22 UJ	2.8 J	35 UJ	24 UJ	50 J	5.8 U	8.8 UJ
Endrin	22 UJ	1.7 J	35 UJ	1.7 J	770 UJ	5.8 U	8.8 UJ
Endrin aldehyde	22 UJ	14 J	9 J	3.6 J	770 UJ	5.8 U	8.8 UJ
Endrin ketone	22 UJ	10 J	7.2 J	3.8 J	200 J	5.8 U	8.8 UJ
Gamma Chlordane	5.1 J	17 J	7.5 J	2.4 J	140 J	3 U	4.6 UJ
Heptachlor	0.53 J	7.8 UJ	18 UJ	0.93 J	59 J	3 U	4.6 UJ
Heptachlor epoxide	11 UJ	5.4 J	18 UJ	0.51 J	400 UJ	3 U	4.6 UJ
Methoxychlor	110 UJ	24 J	14 J	7.3 J	4000 UJ	30 U	46 UJ
Toxaphene	1100 UJ	780 UJ	1800 UJ	1200 UJ	40000 UJ	300 U	460 UJ
alpha-BHC	3.3 UJ	2.3 UJ	5.3 UJ	3.7 UJ	120 UJ	0.89 U	1.3 UJ
beta-BHC	3.3 UJ	2.3 UJ	5.3 UJ	3.7 UJ	120 UJ	0.89 U	1.3 UJ
delta-BHC	3.3 UJ	0.34 J	5.3 UJ	3.7 UJ	120 UJ	0.89 U	1.3 UJ
gamma-BHC (Lindane)	11 UJ	7.8 UJ	18 UJ	12 UJ	400 UJ	3 U	4.6 UJ
Total Pesticides	19.23	126.34	58.6	27.57	723	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-4
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound				
4,4'-DDD	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
4,4'-DDE	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
4,4'-DDT	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Aldrin	3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Alpha Chlordane	3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Dieldrin	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endosulfan I	3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Endosulfan II	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endosulfan sulfate	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endrin	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endrin aldehyde	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endrin ketone	6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Gamma Chlordane	3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Heptachlor	3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Heptachlor epoxide	3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Methoxychlor	35 UJ	0.5 U	35 UJ	37 UJ
Toxaphene	350 UJ	5 U	350 UJ	370 UJ
alpha-BHC	1 UJ	0.039 U	1 UJ	1.1 UJ
beta-BHC	1 UJ	0.014 U	1 UJ	1.1 UJ
delta-BHC	1 UJ	0.0089 J	1 UJ	1.1 UJ
gamma-BHC (Lindane)	3.5 UJ	0.019 U	3.5 UJ	3.7 UJ
Total Pesticides	ND	0.0089	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-5
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
2,4,5-T	23 UJ	23 UJ	24 UJ	23 UJ	12 U	11 U	0.5 U
2,4,5-TP (Silvex)	23 UJ	23 UJ	24 UJ	23 UJ	12 U	11 U	0.5 U
2,4-D	23 UJ	6.1 J	24 UJ	11 J	12 U	11 U	0.5 U
2,4-DB	23 UJ	23 UJ	24 UJ	23 UJ	12 U	11 U	0.5 U
Dalapon	180 UJ	180 UJ	190 UJ	180 UJ	97 U	90 U	120 U
Dicamba	55 UJ	55 UJ	58 UJ	56 UJ	30 U	27 U	1.2 U
Dichloroprop	280 UJ	270 UJ	290 UJ	280 UJ	140 U	140 U	6 U
Dinoseb	280 UJ	270 UJ	290 UJ	280 UJ	140 U	140 U	6 U
MCPA	5500 UJ	5500 UJ	5800 UJ	5600 UJ	2900 U	2700 U	120 U
MCPP	5500 UJ	5500 UJ	5800 UJ	5600 UJ	2900 U	2700 U	120 U
Pentachlorophenol	47 UJ	47 UJ	50 UJ	47 UJ	29 U	27 U	1 U
Total Herbicides	ND	6.1	ND	11	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-5
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

Compound	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0.2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
2,4,5-T		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
2,4,5-TP (Silvex)		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
2,4-D		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
2,4-DB		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
Dalapon		91 U	120 U	840 UJ	850 UJ	160 UJ	1100 UJ	220 UJ
Dicamba		28 U	1.2 U	260 UJ	260 UJ	50 UJ	350 UJ	68 UJ
Dichloroprop		140 U	6.0 U	1300 UJ	1300 UJ	250 UJ	1800 UJ	340 UJ
Dinoseb		140 U	6.0 U	1300 UJ	1300 UJ	250 UJ	1800 UJ	340 UJ
MCPA		2800 U	120 U	26000 UJ	26000 UJ	5000 UJ	35000 UJ	6800 UJ
MCPP		2800 U	120 U	26000 UJ	26000 UJ	5000 UJ	35000 UJ	6800 UJ
Pentachlorophenol		23 U	1.0 U	57 J	36 J	220 J	56 J	7.4 J
Total Herbicides		ND	ND	57	36	220	56	7.4

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-5
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0 2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
2,4,5-T	24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	170 U	130 UJ
2,4,5-TP (Silvex)	24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	170 UJ	130 UJ
2,4-D	24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	73 J	130 UJ
2,4-DB	24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	150 J	130 UJ
Dalapon	180 UJ	1400 UJ	1500 UJ	1700 UJ	190 UJ	1300 UJ	990 UJ
Dicamba	57 UJ	440 UJ	460 UJ	13 J	59 UJ	410 UJ	300 UJ
Dichloroprop	280 UJ	2200 UJ	2300 UJ	2600 UJ	290 UJ	2100 UJ	1500 UJ
Dinoseb	280 UJ	2200 UJ	2300 UJ	2600 UJ	290 UJ	2100 UJ	1500 UJ
MCPA	5700 UJ	44000 UJ	46000 UJ	53000 UJ	5900 UJ	41000 UJ	30000 UJ
MCPP	5700 UJ	44000 UJ	46000 UJ	53000 UJ	5900 UJ	41000 UJ	30000 UJ
Pentachlorophenol	23 J	23 J	400 UJ	450 UJ	3.9 J	350 UJ	12 J
Total Herbicides	23	23	ND	13	3.9	223	12

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-5
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
2,4,5-T	140 UJ	110 UJ	240 UJ	30 UJ	220 UJ	15 U	22 UJ
2,4,5-TP (Silvex)	140 UJ	110 UJ	240 UJ	30 UJ	220 UJ	15 U	22 UJ
2,4-D	140 UJ	110 UJ	240 UJ	23 J	220 UJ	12 J	22 UJ
2,4-DB	140 UJ	110 UJ	240 UJ	30 UJ	220 UJ	15 U	22 UJ
Dalapon	1100 UJ	860 UJ	2000 UJ	240 UJ	1700 UJ	120 U	180 UJ
Dicamba	340 UJ	260 UJ	570 UJ	74 UJ	540 UJ	35 U	54 UJ
Dichloroprop	1700 UJ	1300 UJ	2900 UJ	370 UJ	2700 UJ	180 U	270 UJ
Dinoseb	R	1300 UJ	2900 UJ	370 UJ	2700 UJ	180 U	270 UJ
MCPA	34000 UJ	26000 UJ	57000 UJ	7400 UJ	54000 UJ	3500 UJ	5400 UJ
MCPP	34000 UJ	26000 UJ	57000 UJ	7400 UJ	54000 UJ	3500 U	5400 UJ
Pentachlorophenol	3.8 J	72 UJ	490 UJ	62 UJ	52 J	1.9 J	46 UJ
Total Herbicides	3.8	ND	ND	23	52	13.9	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-5
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0 2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0 2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound					
2,4,5-T		17 UJ	0.5 U	17 UJ	18 UJ
2,4,5-TP (Silvex)		17 UJ	0.5 U	17 UJ	18 UJ
2,4-D		17 UJ	0.5 U	17 UJ	18 UJ
2,4-DB		17 UJ	0.5 U	17 UJ	18 UJ
Dalapon		130 UJ	120 U	130 UJ	120 UJ
Dicamba		42 UJ	1.2 U	42 UJ	43 UJ
Dichloroprop		210 UJ	6 U	210 UJ	220 UJ
Dinoseb		210 UJ	6 U	210 UJ	220 UJ
MCPA		4200 UJ	120 U	4200 UJ	4300 UJ
MCPP		4200 UJ	120 U	4200 UJ	4300 UJ
Pentachlorophenol		35 UJ	1.0 U	35 UJ	36 UJ
Total Herbicides		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 5-6
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7470A/7471A/9010B Inorganic Data

Compound	Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l
Aluminum		13000 J	15000 J	16000 J	11000 J	9800	11000	0.2 U
Antimony		1.9 J	5.1 UJ	5.9 UJ	1.5 J	2.7 UJ	2.5 UJ	0.02 U
Arsenic		16 J	17 J	17 J	13 J	7	6.6	0.01 U
Barium		360 J	410 J	420 J	240 J	140 J	130 J	0.01 U
Beryllium		0.72 J	0.76 J	0.82 J	0.58 J	0.48 J	0.54	0.004 U
Cadmium		1.9 J	2 J	2.7 J	1.6 J	0.67 U	0.62 U	0.005 U
Calcium		16000 J	17000 J	16000 J	11000 J	5300	3300	0.15 J
Chromium		20 J	22 J	26 J	18 J	15 J	16 J	0.01 U
Cobalt		9.3 J	10 J	10 J	7.1 J	6.7	7.4	0.01 U
Copper		43 J	48 J	64 J	36 J	14	14	0.02 U
Cyanide, Total		1.4 UJ	1.4 UJ	1.5 UJ	1.4 UJ	0.74 U	0.68 U	0.01 U
Iron		34000 J	37000 J	38000 J	28000 J	16000	16000	0.05 U
Lead		49 J	54 J	58 J	34 J	16	15	0.005 U
Magnesium		5500 J	5700 J	4800 J	3600 J	2900	2600	0.5 U
Manganese		1200 J	1300 J	1400 J	940 J	430 J	540 J	0.01 U
Mercury		0.091 J	0.11 J	0.16 J	0.11 J	0.025	0.023	0.0002 U
Molybdenum		0.52 J	0.47 J	0.92 J	0.37 J	0.45 J	0.58 J	0.01 U
Nickel		51 J	54 J	54 J	35 J	15	16	0.04 U
Potassium		2000 J	2300 J	2200 J	1500 J	1200 J	1200 J	1 U
Selenium		2.8 UJ	2.8 UJ	2.9 UJ	2.5 UJ	1.3 U	1.2 U	0.01 U
Silver		2.8 UJ	2.8 UJ	0.79 J	2.5 UJ	1.3 U	1.2 U	0.01 U
Sodium		200 UJ	180 UJ	230 UJ	140 UJ	92	80	0.58
Thallium		2.8 UJ	2.8 UJ	2.9 UJ	2.5 UJ	1.3 U	1.2 UJ	0.01 U
Vanadium		35 J	38 J	40 J	28 J	25	29	0.01 U
Zinc		290 J	320 J	370 J	250 J	58	59	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-6
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7470A/7471A/9010B Inorganic Data

Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound							
Aluminum	13000	0.20 U	6900 J	6200 J	8300 J	12000 J	15000 J
Antimony	2.5 UJ	0.020 U	9.2 J	8.6 J	6.3 J	6.8 J	1.8 J
Arsenic	7.8	0.010 U	35 J	31 J	38 J	25 J	28 J
Barium	140 J	0.0030 J	950 J	550 J	3300 J	1700 J	470 J
Beryllium	0.58	0.0040 U	1 UJ	0.96 UJ	1 UJ	1.2 UJ	1.2 UJ
Cadmium	0.63 U	0.0050 U	17 J	13 J	25 J	25 J	20 J
Calcium	4000	0.41 J	180000 J	180000 J	87000 J	100000 J	28000 J
Chromium	18 J	0.010 U	49 J	34 J	76 J	78 J	50 J
Cobalt	7.7	0.010 U	7.2 J	6.7 J	9.9 J	12 J	17 J
Copper	15	0.0062 J	5100 J	4600 J	11000 J	6700 J	1400 J
Cyanide, Total	0.69 U	0.010 U	1.2 UJ	1.1 UJ	1.2 UJ	1.7 UJ	1.7 UJ
Iron	18000	0.042 J	14000 J	12000 J	29000 J	25000 J	27000 J
Lead	16	0.0019 J	630 J	490 J	1000 J	750 J	270 J
Magnesium	2800	0.50 U	20000 J	20000 J	10000 J	11000 J	5500 J
Manganese	670 J	0.010 U	250 J	240 J	210 J	230 J	290 J
Mercury	0.023	0.00020 U	0.96 J	0.56 J	1.5 J	1.4 J	0.66 J
Molybdenum	0.68 J	0.010 U	7.2 J	6.8 J	4.3 J	4.8 J	3.4 J
Nickel	17	0.040 U	88 J	67 J	500 J	380 J	370 J
Potassium	1500 J	1.0 U	1700 J	1600 J	1700 J	2400 J	3000 J
Selenium	1.3 U	0.010 U	4.1 J	1.7 J	5.1 J	3.5 J	2.8 UJ
Silver	1.3 U	0.010 U	6.7 J	6.7 J	15 J	8.9 J	1.2 J
Sodium	71	0.39 J	340 UJ	310 UJ	270 UJ	290 UJ	300 UJ
Thallium	1.3 U	0.010 U	2.5 UJ	2.2 UJ	2.3 UJ	2.1 J	3.1 UJ
Vanadium	33	0.010 U	29 J	26 J	37 J	41 J	48 J
Zinc	63	0.023	2000 J	1600 J	7900 J	4800 J	2900 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-6
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7470A/7471A/9010B Inorganic Data

Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound							
Aluminum	12000 J	9700 J	13000 J	16000 J	13000 J	15000 J	13000 J
Antimony	1.3 J	2.2 J	8.7 UJ	8.7 UJ	5.9 UJ	2.7 J	2 J
Arsenic	17 J	16 J	16 J	17 J	10 J	16 J	12 J
Barium	680 J	800 J	380 J	400 J	310 J	340 J	290 J
Beryllium	0.93 UJ	1 UJ	1.2 UJ	1.3 UJ	1 UJ	0.84 J	0.75 J
Cadmium	19 J	16 J	15 J	13 J	10 J	14 J	11 J
Calcium	23000 J	47000 J	28000 J	30000 J	26000 J	43000 J	80000 J
Chromium	93 J	47 J	56 J	60 J	67 J	71 J	49 J
Cobalt	12 J	9.7 J	12 J	12 J	8.8 J	10 J	9.2 J
Copper	2200 J	2100 J	740 J	730 J	320 J	570 J	350 J
Cyanide, Total	1.4 UJ	1.9 UJ	2.2 UJ	2.4 UJ	1.5 UJ	1.8 UJ	1.3 UJ
Iron	21000 J	24000 J	22000 J	25000 J	19000 J	24000 J	20000 J
Lead	330 J	480 J	260 J	230 J	170 J	310 J	190 J
Magnesium	3600 J	6400 J	6700 J	7500 J	6600 J	9200 J	13000 J
Manganese	240 J	330 J	250 J	320 J	270 J	310 J	320 J
Mercury	0.64 J	0.58 J	0.5 J	0.42 J	0.35 J	0.51 J	0.3 J
Molybdenum	2.2 J	1.7 UJ	3 UJ	2.6 UJ	1.7 UJ	2.6 J	1.6 J
Nickel	580 J	550 J	260 J	260 J	150 J	190 J	130 J
Potassium	2400 J	2100 J	2900 J	3200 J	2700 J	3100 J	2600 J
Selenium	13 UJ	2.4 UJ	2 UJ	2.5 UJ	2.9 UJ	2.6 UJ	1.5 UJ
Silver	1.8 J	1.6 J	4.3 UJ	4.3 UJ	2.9 UJ	1.1 J	0.67 J
Sodium	320 UJ	340 UJ	240 UJ	250 UJ	190 UJ	250 UJ	300 UJ
Thallium	2.6 UJ	3.5 UJ	4.3 UJ	4.3 UJ	2.9 UJ	1.9 J	2.6 UJ
Vanadium	36 J	34 J	44 J	51 J	37 J	51 J	40 J
Zinc	4500 J	3300 J	2500 J	2700 J	1800 J	2300 J	1800 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-6
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7470A/7471A/9010B Inorganic Data

Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound							
Aluminum	11000 J	7800 J	14000 J	17000 J	8900 J	15000 J	12000 J
Antimony	6.1 UJ	R	2.6 J	2.5 J	6.6 J	3.2 UJ	1.3 J
Arsenic	9.3 J	8 J	19 J	15 J	35 J	8	7 J
Barium	190 J	150 J	250 J	270 J	700 J	230 J	210 J
Beryllium	0.9 UJ	0.53 J	0.85 J	0.89 J	1.3 UJ	0.8	0.7 J
Cadmium	7.7 J	7.4 J	47 J	14 J	17 J	0.38 J	0.34 J
Calcium	26000 J	11000 J	13000 J	11000 J	100000 J	18000 J	12000 J
Chromium	31 J	19 J	38 J	30 J	48 J	21 J	17 J
Cobalt	7.4 J	5.5 J	13 J	11 J	15 J	9.8	7.1 J
Copper	150 J	160 J	410 J	240 J	4200 J	20 J	17 J
Cyanide, Total	1.7 UJ	1.2 UJ	2.6 UJ	1.9 UJ	2.5 UJ	0.89 U	1.4 UJ
Iron	17000 J	14000 J	22000 J	26000 J	34000 J	22000 J	19000 J
Lead	140 J	110 J	320 J	110 J	530 J	23 J	22 J
Magnesium	7400 J	4100 J	6800 J	5300 J	7400 J	6500	5000 J
Manganese	170 J	170 J	230 J	510 J	370 J	720 J	770 J
Mercury	0.3 J	0.3 J	1.1 J	0.45 J	1 J	0.042	0.063 J
Molybdenum	3.2 J	0.7 J	3.7 J	0.76 J	17 J	0.37 J	0.49 J
Nickel	51 J	90 J	390 J	180 J	190 J	23	19 J
Potassium	2400 J	1600 J	2900 J	2700 J	2000 J	2300	1900 J
Selenium	3 UJ	2.3 UJ	4.8 UJ	3.7 UJ	3.8 J	1.8 U	2.5 UJ
Silver	3 UJ	2.3 UJ	4.8 UJ	3.7 UJ	7.3 J	1.8 U	2.5 UJ
Sodium	180 UJ	210 UJ	350 UJ	230 UJ	290 UJ	150 U	180 UJ
Thallium	3 UJ	2.3 UJ	4.8 UJ	3.7 UJ	5 UJ	1.8 U	2.5 UJ
Vanadium	37 J	25 J	51 J	41 J	45 J	36	30 J
Zinc	980 J	950 J	3700 J	1600 J	2400 J	95 J	82 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-6
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7470A/7471A/9010B Inorganic Data

Sample ID	SED-RA2-S1-0 2FT	SED-RA2-S1-0 2FTEB	SED-RA2-S1-0 2FTFD	SED-RA2-S2-0.2FT
Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw
Compound				
Aluminum	11000 J	0.2 U	13000 J	19000 J
Antimony	1 J	0.02 U	3.8 UJ	R
Arsenic	6.5 J	0.01 U	6.9 J	7 J
Barium	160 J	0.013	170 J	220 J
Beryllium	0.6 J	0.004 U	0.64 J	1 J
Cadmium	0.26 J	0.005 U	0.32 J	0.65 J
Calcium	11000 J	24	13000 J	12000 J
Chromium	16 J	0.01 U	18 J	25 J
Cobalt	7.3 J	0.01 U	7.7 J	10 J
Copper	16 J	0.0038 J	16 J	23 J
Cyanide, Total	1 UJ	0.01 U	1 UJ	1.1 UJ
Iron	17000 J	0.05 U	18000 J	24000 J
Lead	16 J	0.005 U	17 J	26 J
Magnesium	3100 J	8	3400 J	5800 J
Manganese	560 J	0.0026 J	580 J	770 J
Mercury	0.046 J	0.0002 U	0.048 J	0.04 J
Molybdenum	0.35 J	0.01 U	0.43 J	0.53 J
Nickel	17 J	0.04 U	18 J	26 J
Potassium	1500 J	2.3	1700 J	2600 J
Selenium	1.9 UJ	0.01 U	1.9 UJ	2 UJ
Silver	1.9 UJ	0.01 U	1.9 UJ	2 UJ
Sodium	140 UJ	13	130 UJ	210 UJ
Thallium	1.9 UJ	0.01 U	1.9 UJ	2 UJ
Vanadium	28 J	0.01 U	31 J	44 J
Zinc	57 J	0.0072 J	61 J	96 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 5-7
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

Compound	Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/l
1,2,3,4,6,7,8,9-OCDD		8.39 J	8.86 J	17.25 J	15.5 J	9.35	12.24	0.0000276
1,2,3,4,6,7,8,9-OCDF		0.236 J	0.234 J	0.658 J	0.756 J	0.0082	0.0074	0.0000077 U
1,2,3,4,6,7,8-HpCDD		0.225 J	0.251 J	0.425 J	0.443 J	0.106	0.0778	0.0000057 U
1,2,3,4,6,7,8-HpCDF		0.052 J	0.0576 J	0.126 J	0.159 J	0.0044	0.0031	0.0000046 U
1,2,3,4,7,8,9-HpCDF		0.0134 JM	0.0053 J	0.0117 J	0.0109 J	0.0002 U	0.0002 U	0.0000066 U
1,2,3,4,7,8-HxCDD		0.0027 JM	0.0034 J	0.0049 J	0.0041 JM	0.0015	0.0011	0.0000044 U
1,2,3,4,7,8-HxCDF		0.0049 J	0.0052 J	0.0092 J	0.0072 J	0.00049	0.00048	0.0000025 U
1,2,3,6,7,8-HxCDD		0.0078 J	0.0081 J	0.0162 J	0.013 J	0.0019	0.0013	0.0000041 U
1,2,3,6,7,8-HxCDF		0.0028 J	0.0031 J	0.0059 J	0.0041 J	0.00006 U	0.00026 M	0.0000023 U
1,2,3,7,8,9-HxCDD		0.0099 J	0.0096 J	0.0173 J	0.013 J	0.0041	0.0026	0.0000044 U
1,2,3,7,8,9-HxCDF		0.006 J	0.00039 JM	0.0036 J	0.00074 J	0.00008 U	0.00008 U	0.000003 U
1,2,3,7,8-PeCDD		0.0022 J	0.002 J	0.0035 J	0.0023 J	0.00058	0.00047	0.0000018 U
1,2,3,7,8-PeCDF		0.0019 JM	0.002 J	0.0027 J	0.0018 JM	0.00006 U	0.00039 JM	0.0000016 U
2,3,4,6,7,8-HxCDF		0.0038 JM	0.0051 J	0.0073 J	0.0064 J	0.00006 U	0.00038	0.0000048
2,3,4,7,8-PeCDF		0.0036 J	0.0043 J	0.0042 J	0.0029 J	0.00031	0.00031	0.0000017 U
2,3,7,8-TCDD		0.0013 J	0.001 JM	0.0122 J	0.0026 J	0.00021	0.00008 U	0.0000027 U
2,3,7,8-TCDF		0.0099 J	0.0104 J	0.0094 J	0.0062 J	0.00057	0.00051	0.0000028 U
1998 Total TEQ w/ EMPC as ND		0.0135021	0.0133079	0.0327328	0.0194186	0.00385332	0.00336349	0.0000044577

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-7
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

Compound	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0.2FTEB	SED-CSB-S1-0 2FT	SED-CSB-S1-0 2FTFD	SED-CSB-S2-0 2FT	SED-CSB-S3-0 2FT	SED-CSC-S1-0.2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg	ug/l	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2,3,4,6,7,8,9-OCDD		12.39	0.0000276	1298.83 J	1169.13 J	3415.6 J	2362.98 J	283.53 J
1,2,3,4,6,7,8,9-OCDF		0.0098 J	0.000014 U	161.98 J	151.21 J	1126.74 J	806.88 J	93.75 J
1,2,3,4,6,7,8-HpCDD		0.111	0.0000119 U	131.19 J	99.99 J	396.91 J	265.54 J	31.72 J
1,2,3,4,6,7,8-HpCDF		0.0042	0.0000082 U	39.76 J	27.7 J	187.96 J	130.97 J	17.73 J
1,2,3,4,7,8,9-HpCDF		0.0002 U	0.0000107 U	3.27 J	2.65 J	13.14 J	8.73 J	0.663 J
1,2,3,4,7,8-HxCDD		0.0013	0.0000071 U	1.26 J	0.825 J	2.31 J	1.57 J	0.0916 J
1,2,3,4,7,8-HxCDF		0.00071	0.0000068 U	2.31 J	1.93 J	6.41 J	4.22 J	0.353 J
1,2,3,6,7,8-HxCDD		0.0019	0.0000067 U	4.62 J	3.21 J	13.18 J	8.49 J	0.657 J
1,2,3,6,7,8-HxCDF		0.00036	0.0000063 U	1.13 J	0.837 J	2.54 J	1.7 J	0.195 J
1,2,3,7,8,9-HxCDD		0.0039	0.0000069 U	3.42 J	2.73 J	7.54 J	5.6 J	0.322 J
1,2,3,7,8,9-HxCDF		0.0001 U	0.0000076 U	0.0296 J	0.0206 J	0.119 J	0.0583 J	0.0083 J
1,2,3,7,8-PeCDD		0.00069 M	0.0000082 U	0.975 J	0.583 J	1.48 J	1.97 J	0.0781 J
1,2,3,7,8-PeCDF		0.00085	0.0000057 U	0.272 J	0.224 J	0.842 J	0.603 J	0.0643 J
2,3,4,6,7,8-HxCDF		0.00049	0.0000067 U	1.6 J	1.26 J	3.91 J	2.36 J	0.25 J
2,3,4,7,8-PeCDF		0.0005	0.000006 U	0.691 J	0.546 J	1.28 J	0.835 J	0.097 J
2,3,7,8-TCDD		0.00021	0.000008 U	0.306 J	0.221 J	0.441 JM	0.63 JM	0.0176 JM
2,3,7,8-TCDF		0.00063	0.0000077 U	0.335 J	0.257 J	0.788 J	0.811 J	0.109 J
1998 Total TEQ w/ EMPC as ND		0.00417448	0.00001269	4.998841	3.630594	12.496634	9.582966	0.876063

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 5-7
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0 2FT	SED-CSD-S2-0 2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0 2FT	SED-CSE-S2-0.2FT
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,3,4,6,7,8,9-OCDD	483.88 J	880.64 J	209.03 J	182.84 J	91.25 J	60.65 J	91.45 J
1,2,3,4,6,7,8,9-OCDF	178.41 J	398.07 J	63.97 J	51.28 J	26.62 J	24.02 J	28.71 J
1,2,3,4,6,7,8-HpCDD	55.25 J	101.1 J	21.45 J	20.14 J	10.81 J	6.77 J	9.45 J
1,2,3,4,6,7,8-HpCDF	33.37 J	62.04 J	12.1 J	10.92 J	6.14 J	5.13 J	5.94 J
1,2,3,4,7,8,9-HpCDF	1.81 J	4.27 J	0.538 J	0.414 J	0.305 J	0.673 J	0.276 J
1,2,3,4,7,8-HxCDD	0.143 J	0.314 J	0.0968 J	0.107 J	0.0962 J	0.13 J	0.0574 J
1,2,3,4,7,8-HxCDF	0.915 J	1.36 J	0.297 J	0.245 J	0.166 J	0.364 J	0.127 J
1,2,3,6,7,8-HxCDD	1.64 J	2.79 J	0.587 J	0.529 J	0.396 J	0.704 J	0.282 J
1,2,3,6,7,8-HxCDF	0.328 J	0.698 J	0.178 J	0.146 J	0.118 J	0.222 J	0.116 J
1,2,3,7,8,9-HxCDD	0.587 J	1.03 J	0.318 J	0.34 J	0.363 J	0.415 J	0.176 J
1,2,3,7,8,9-HxCDF	0.0153 J	0.0466 J	0.0076 J	0.009 J	0.0074 J	0.0175 J	0.0082 J
1,2,3,7,8-PeCDD	0.135 J	0.219 J	0.0741 J	0.0785 J	0.0811 J	0.0696 J	0.0244 J
1,2,3,7,8-PeCDF	0.134 JM	0.151 J	0.0575 J	0.0569 J	0.0377 J	0.051 J	0.0268 J
2,3,4,6,7,8-HxCDF	0.479 J	1.09 J	0.233 J	0.182 J	0.153 J	0.274 J	0.13 J
2,3,4,7,8-PeCDF	0.188 J	0.25 J	0.0792 J	0.0624 J	0.0461 J	0.0658 J	0.0283 J
2,3,7,8-TCDD	0.0297 JM	0.0489 JM	0.0129 JM	0.0138 JM	0.0134 J	0.0172 JM	0.0075 J
2,3,7,8-TCDF	0.174 J	0.28 J	0.0983 J	0.0911 J	0.064 J	0.0921 J	0.0457 J
1998 Total TEQ w/ EMPC as ND	1.645859	2.938831	0.672775	0.622507	0.440132	0.469707	0.310296

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-7
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

Compound	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2,3,4,6,7,8,9-OCDD		30.57 J	38.7 J	88.43 J	47.36 J	1210.54 J	3.47	4.95 J
1,2,3,4,6,7,8,9-OCDF		9.75 J	15.01 J	32.61 J	19.26 J	297.31 J	0.128	0.136 J
1,2,3,4,6,7,8-HpCDD		3.26 J	4.03 J	9.44 J	4.44 J	121.89 J	0.155	0.162 J
1,2,3,4,6,7,8-HpCDF		1.64 J	2.38 J	5.08 J	2.9 J	49.36 J	0.0254	0.0307 J
1,2,3,4,7,8,9-HpCDF		0.0956 J	0.198 J	0.32 J	0.157 J	4.09 J	0.0017 M	0.003 J
1,2,3,4,7,8-HxCDD		0.0232 JM	0.0228 J	0.0688 J	0.0291 J	0.754 J	0.0011	0.0018 J
1,2,3,4,7,8-HxCDF		0.053 J	0.0842 J	0.162 J	0.0874 J	2.23 J	0.0019 M	0.0029 J
1,2,3,6,7,8-HxCDD		0.113 J	0.141 J	0.32 J	0.159 J	3.41 J	0.0046	0.0044 J
1,2,3,6,7,8-HxCDF		0.0344 J	0.0325 J	0.0719 J	0.0367 J	0.996 J	0.00075 M	0.0011 JM
1,2,3,7,8,9-HxCDD		0.0825 J	0.0667 J	0.221 J	0.0911 J	2.07 J	0.0034	0.0048 J
1,2,3,7,8,9-HxCDF		0.0045 J	0.0085 J	0.0109 J	0.0223 J	0.0184 J	0.0002 U	0.00002 U
1,2,3,7,8-PeCDD		0.0147 J	0.0145 J	0.0389 J	0.0232 J	0.564 J	0.00092 M	0.0017 JM
1,2,3,7,8-PeCDF		0.0141 J	0.0118 J	0.0333 JM	0.0124 J	0.257 J	0.0002 U	0.00082 JM
2,3,4,6,7,8-HxCDF		0.0447 J	0.0503 J	0.0899 J	0.0473 J	1.45 J	0.0011 M	0.0018 J
2,3,4,7,8-PeCDF		0.0105 J	0.0147 J	0.0333 J	0.0179 J	0.581 J	0.00094 M	0.0011 JM
2,3,7,8-TCDD		0.004 J	0.0083 J	0.016 J	0.0055 J	0.193 JM	0.0035	0.00064 J
2,3,7,8-TCDF		0.0106 J	0.016 J	0.0448 J	0.0304 J	0.4 J	0.0013 J	0.0014 J
1998 Total TEQ w/ EMPC as ND		0.114073	0.144391	0.3318165	0.170232	4.000875	0.0076098	0.0060171

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-7
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

Sample ID	SED-RA2-S1-0 2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0 2FTFD	SED-RA2-S2-0 2FT
Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
Units	ug/kg	ug/l	ug/kg	ug/kg
Compound				
1,2,3,4,6,7,8,9-OCDD	9.19 J	0.000131	7.94 J	3.98 J
1,2,3,4,6,7,8,9-OCDF	0.0164	0.0000468	0.0122	0.107 J
1,2,3,4,6,7,8-HpCDD	0.144	0.0000138 M	0.136	0.128 J
1,2,3,4,6,7,8-HpCDF	0.0063	0.0000095	0.0054	0.0283 J
1,2,3,4,7,8,9-HpCDF	0.00057 M	0.0000024 U	0.0007 U	0.0021 JM
1,2,3,4,7,8-HxCDD	0.0023 M	0.0000019 U	0.0021	0.0014 JM
1,2,3,4,7,8-HxCDF	0.0012 M	0.0000012 U	0.00093 M	0.003 J
1,2,3,6,7,8-HxCDD	0.0035	0.0000019 U	0.0031	0.004 J
1,2,3,6,7,8-HxCDF	0.00062 M	0.0000011 U	0.0004 U	0.0013 J
1,2,3,7,8,9-HxCDD	0.0051	0.000002 U	0.005	0.0043 J
1,2,3,7,8,9-HxCDF	0.0004 U	0.0000015 U	0.0005 U	0.0002 UJ
1,2,3,7,8-PeCDD	0.0014	0.0000021 U	0.0015	0.0013 J
1,2,3,7,8-PeCDF	0.0005 M	0.0000012 U	0.0004 U	0.0011 J
2,3,4,6,7,8-HxCDF	0.00072 M	0.0000012 U	0.0004 U	0.0016 J
2,3,4,7,8-PeCDF	0.00067 M	0.0000012 U	0.00062 M	0.0013 J
2,3,7,8-TCDD	0.0004 U	0.0000014 U	0.0006 U	0.0005 JM
2,3,7,8-TCDF	0.00077 J	0.0000013 U	0.00075 J	0.0014 J
1998 Total TEQ w/ EMPC as ND	0.00540549	0.0000028788	0.00538422	0.0058772

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-8
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0 2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		84000 J	50000 J	45000 J	33000 J	3600	4100	1 U
pH		7.12	6.93	7.06	6.74	---	---	---

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 5-8
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0 2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0 2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		5200	---	100000 J	60000 J	95000 J	67000 J	95000 J
pH		---	---	6.77	6.66	6.64	6.6	6.87

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 5-8
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0 2FT	SED-CSE-S1-0 2FT	SED-CSE-S2-0.2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		84000 J	89000 J	73000 J	72000 J	32000 J	92000 J	82000 J
pH		6.92	6.78	6.84	6.82	6.75	6.7	6.83

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 5-8
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		70000 J	40000 J	140000 J	61000 J	75000 J	12000	23000 J
pH		6.78	6.85	6.71	6.87	6.81	7.31	6.92

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

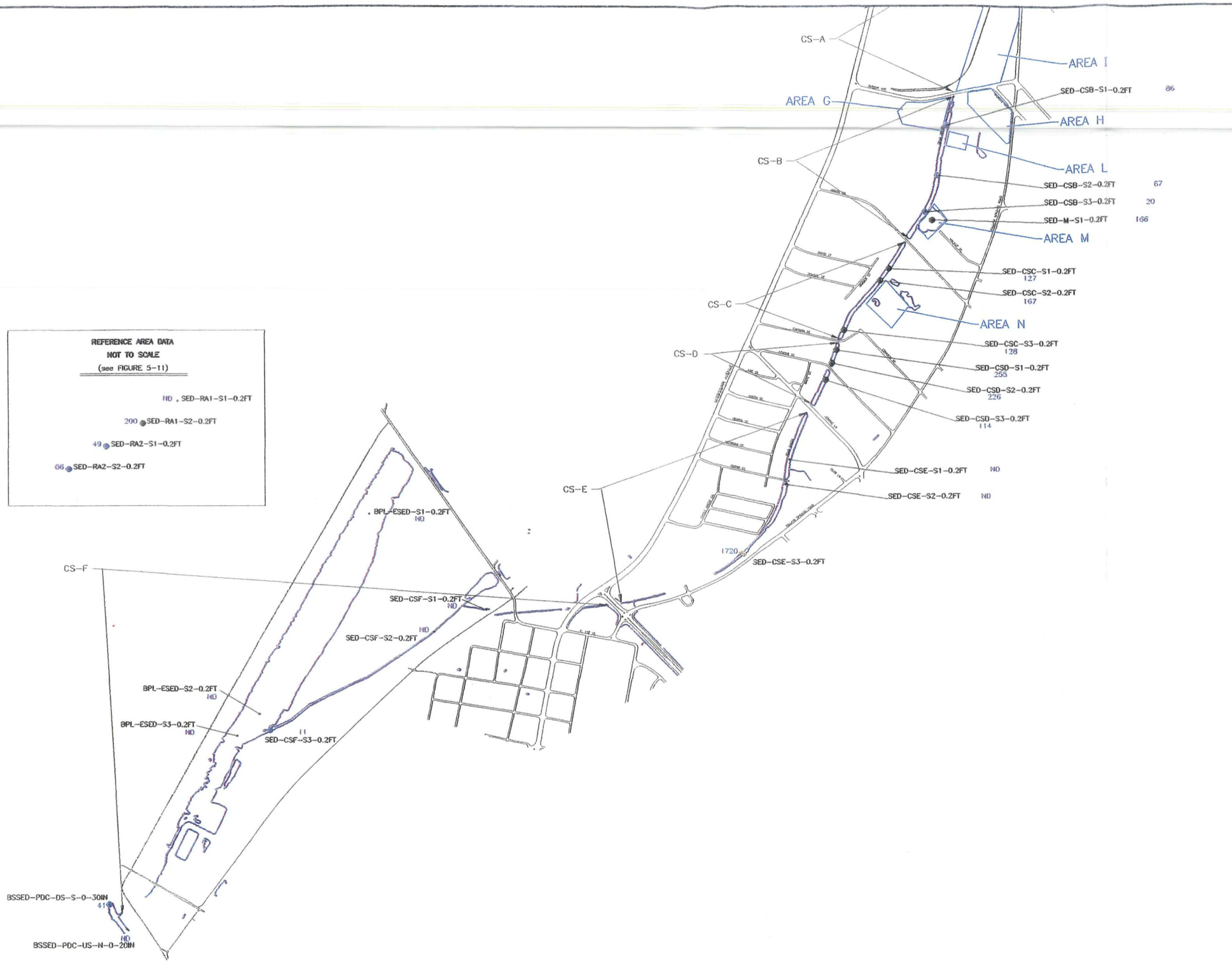
O'BRIEN & GERE ENGINEERS, INC.

Table 5-8
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0 2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/09/99
	Units	mg/L	mg/L	mg/L
Compound				
Total Organic Carbon		13000 J	13000 J	20000 J
pH		6.68	6.92	7.24

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

FIGURE 5-1



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = ug/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDMENTS TOTAL VOCs

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.A
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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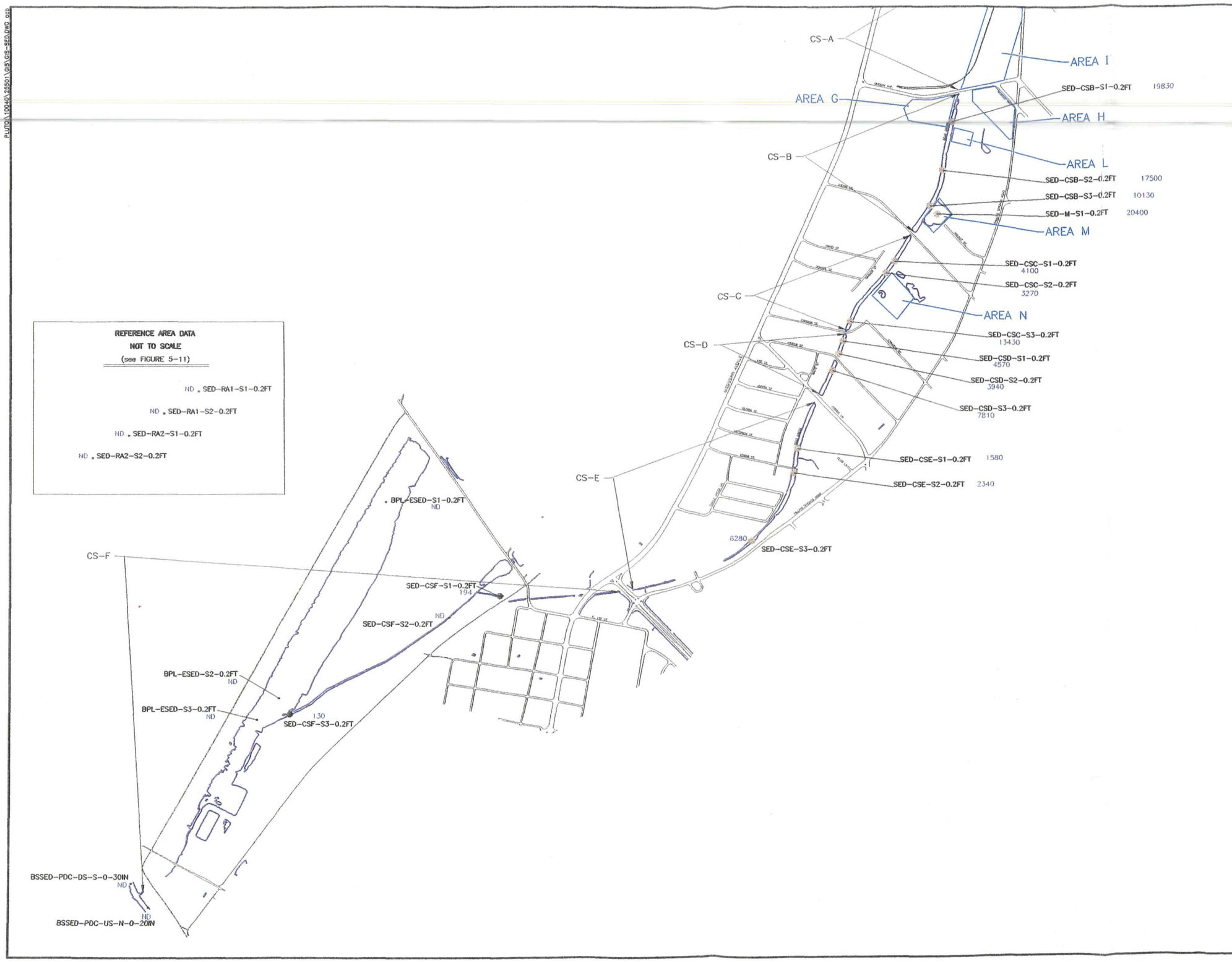
FIGURE 5-2



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = ug/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS TOTAL SVOCs

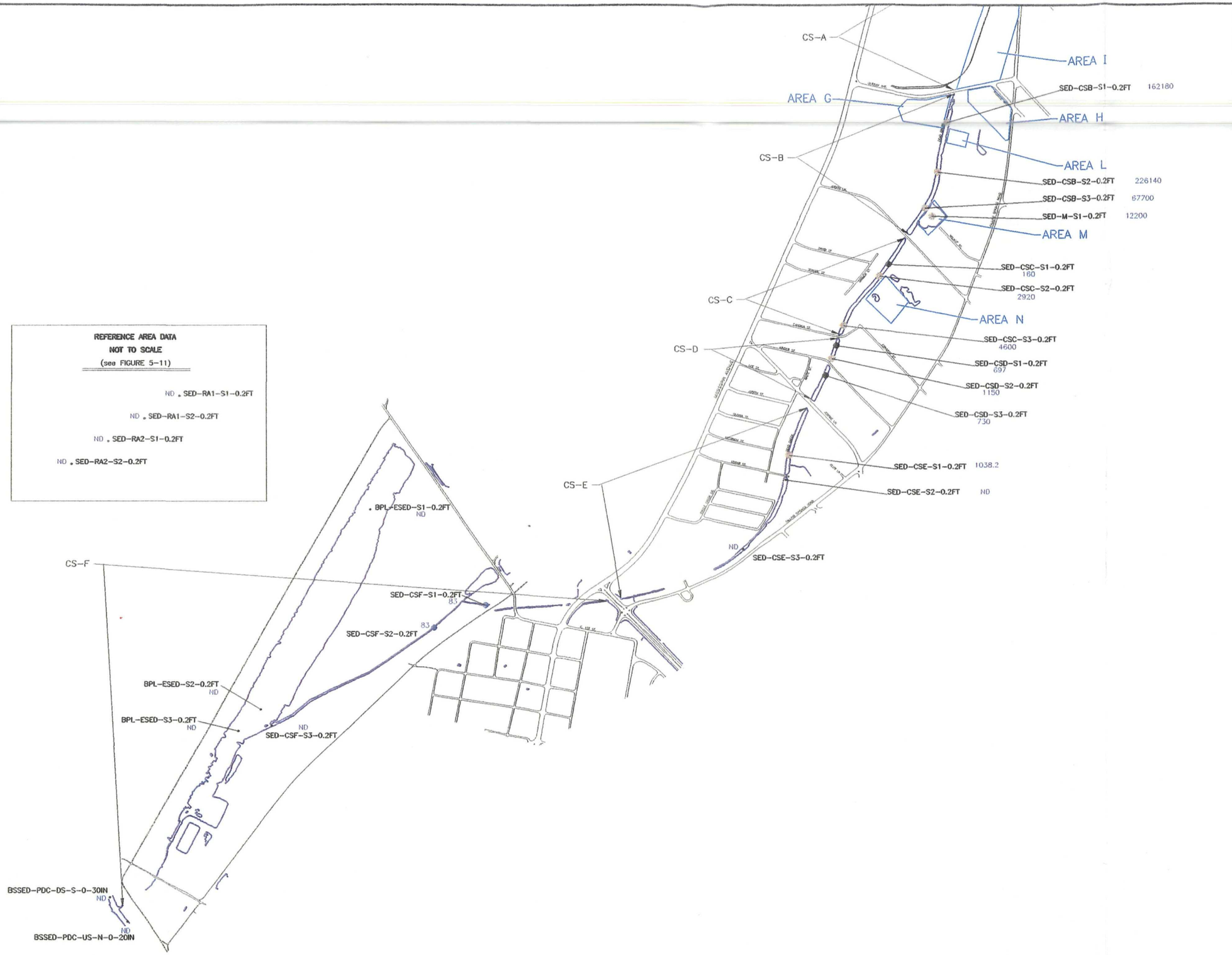
600 0 600
SCALE IN FEET

FILE NO. 25501.SED.B
August 2000

O'BRIEN & GERE ENGINEERS, INC.

PLUTO\10046\25501\GIS\GIS-SED.DWG gcp

FIGURE 5-3



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = ug/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS TOTAL PCBs

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.C
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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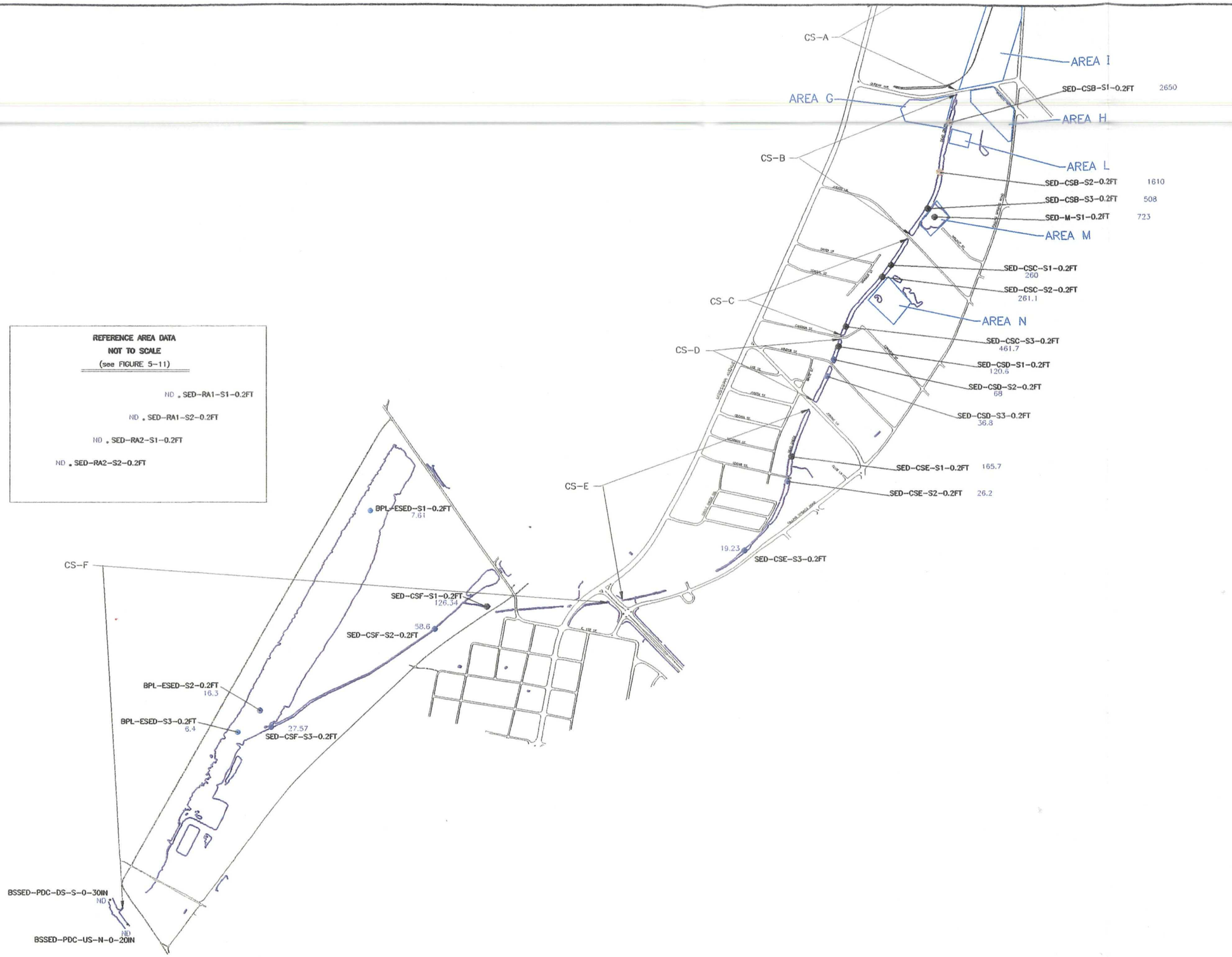
PLUTO:\10040\25501\GIS\GIS-SED.DWG 6/23

FIGURE 5-4



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = ug/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

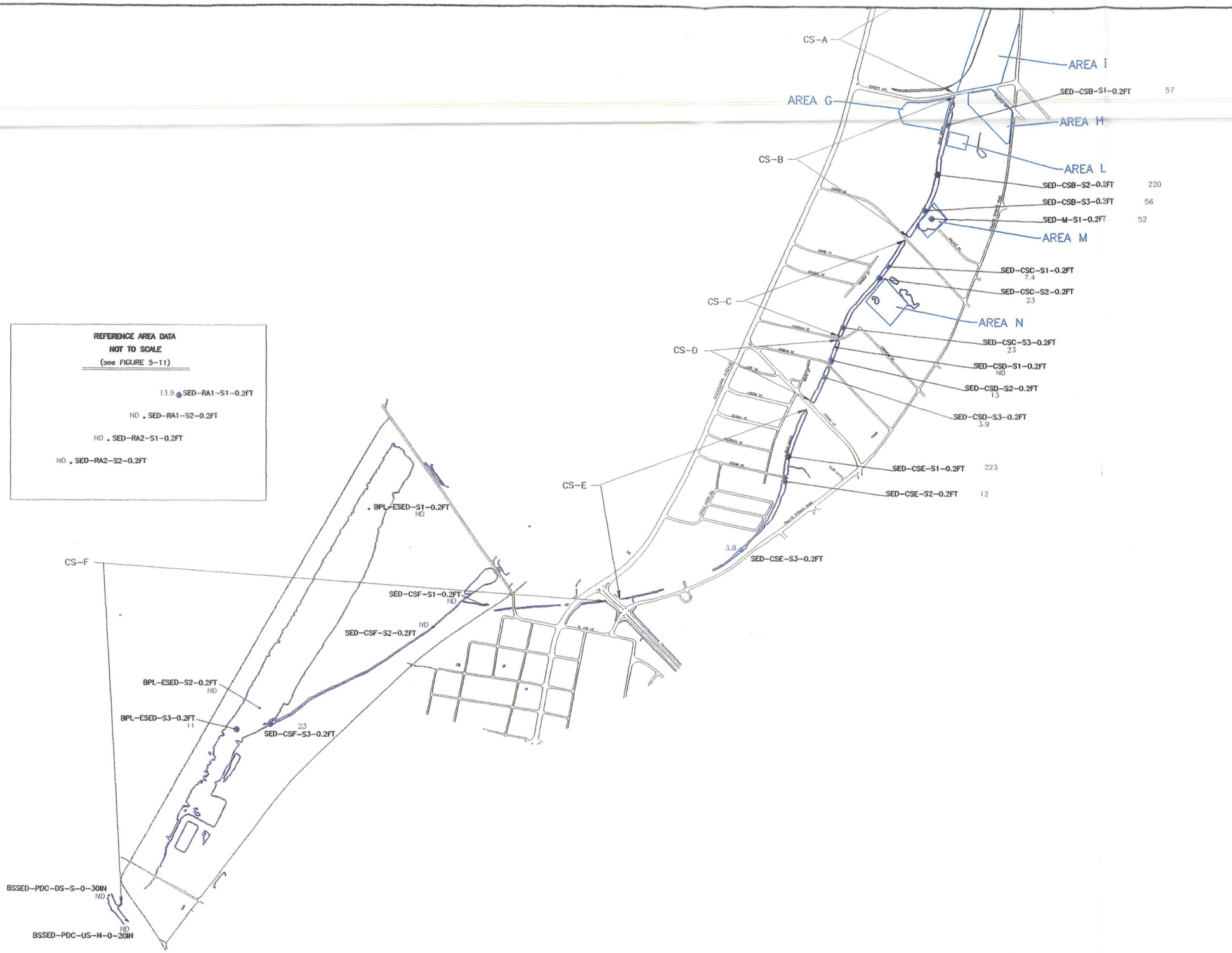
BROAD SCAN/ECOLOGICAL SEDIMENTS TOTAL PESTICIDES

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.D
August 2000

O'BRIEN & GERE ENGINEERS, INC.

FIGURE 5-5



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = ug/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS TOTAL HERBICIDES

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.E
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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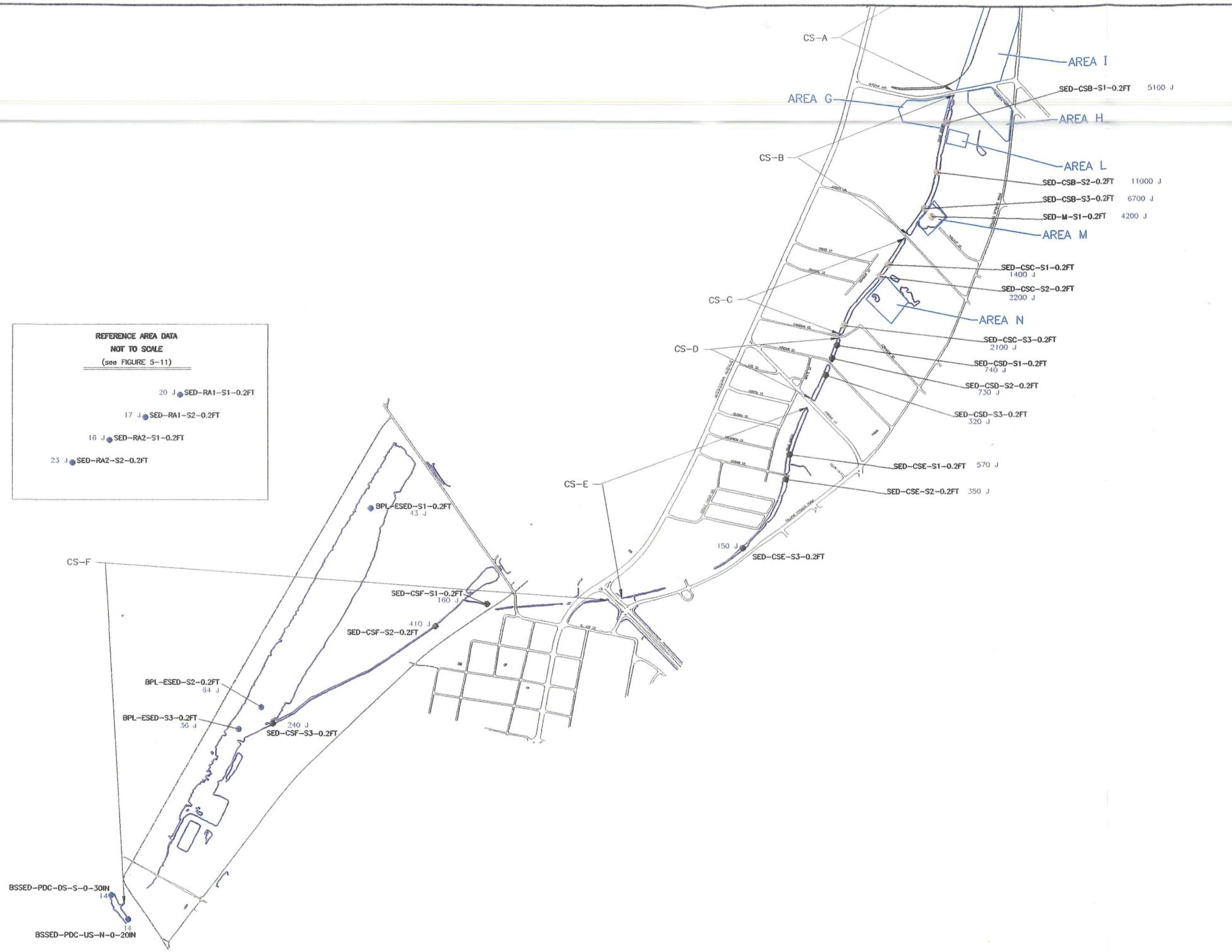
FIGURE 5-6



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS COPPER

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.F
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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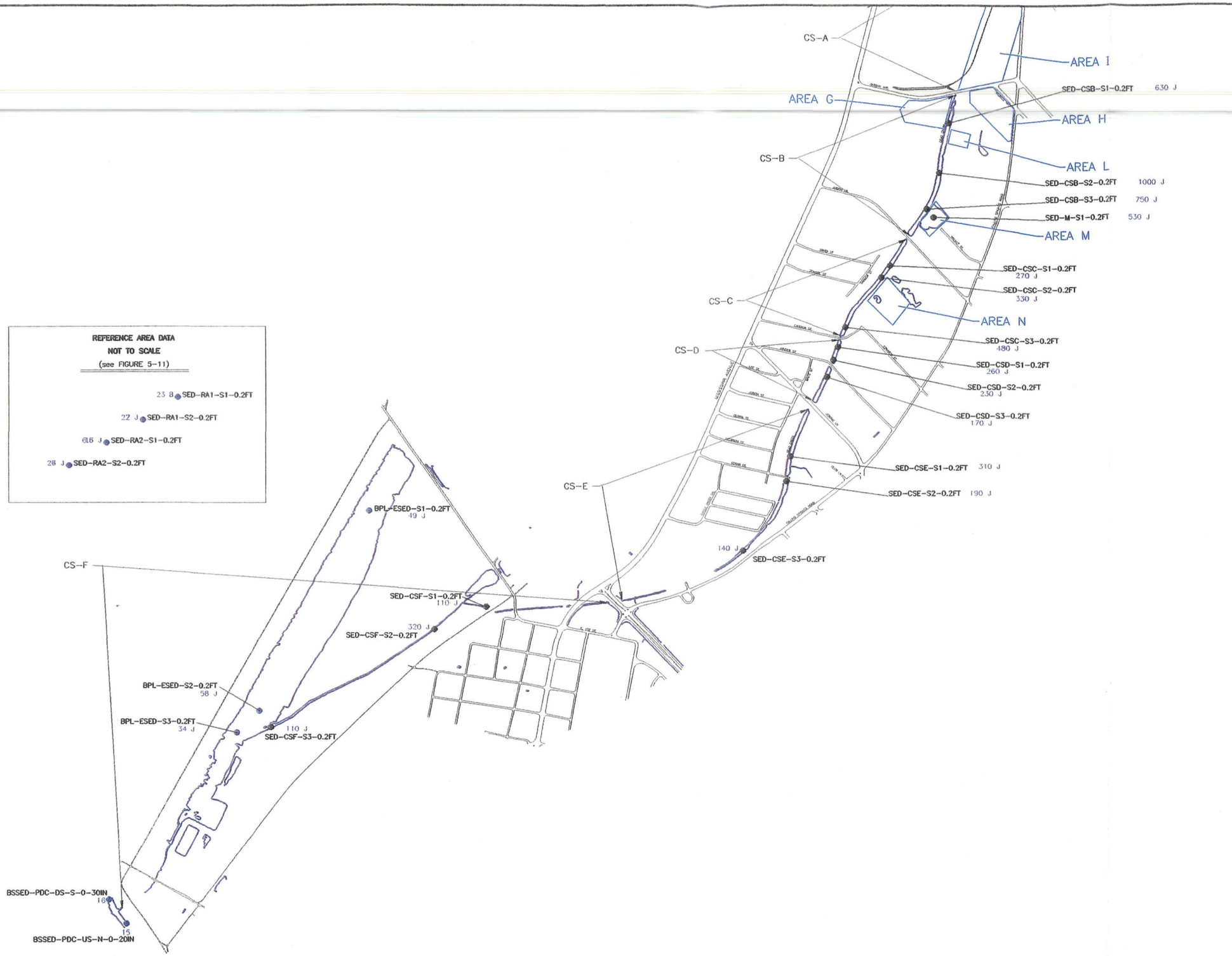
PLUTO\110V40\25501\GIS\GS-SED.DWG

FIGURE 5-7



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

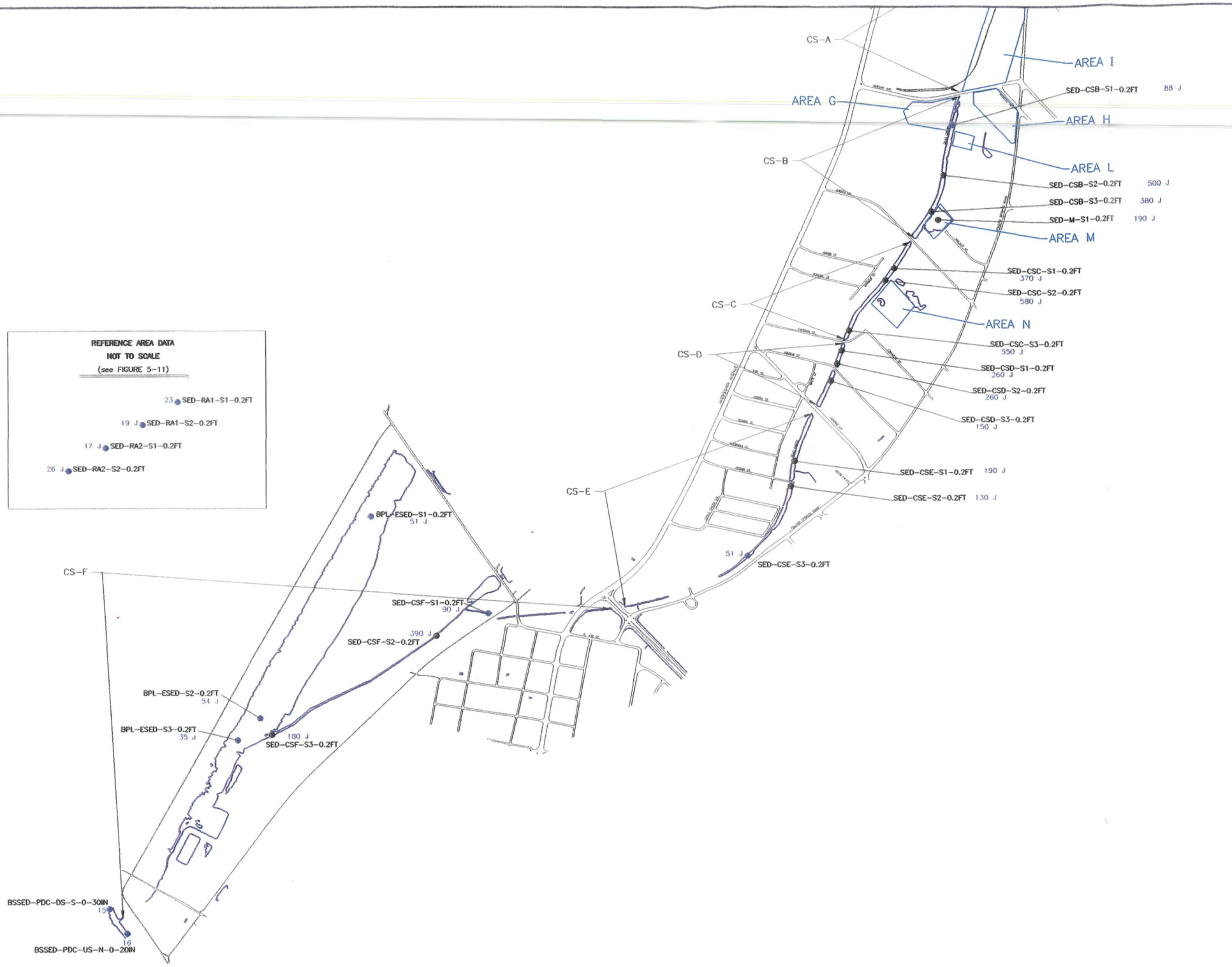
BROAD SCAN/ECOLOGICAL SEDIMENTS LEAD

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.G
August 2000

O'BRIEN & GERE ENGINEERS, INC.

FIGURE 5-8



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS NICKEL

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.H
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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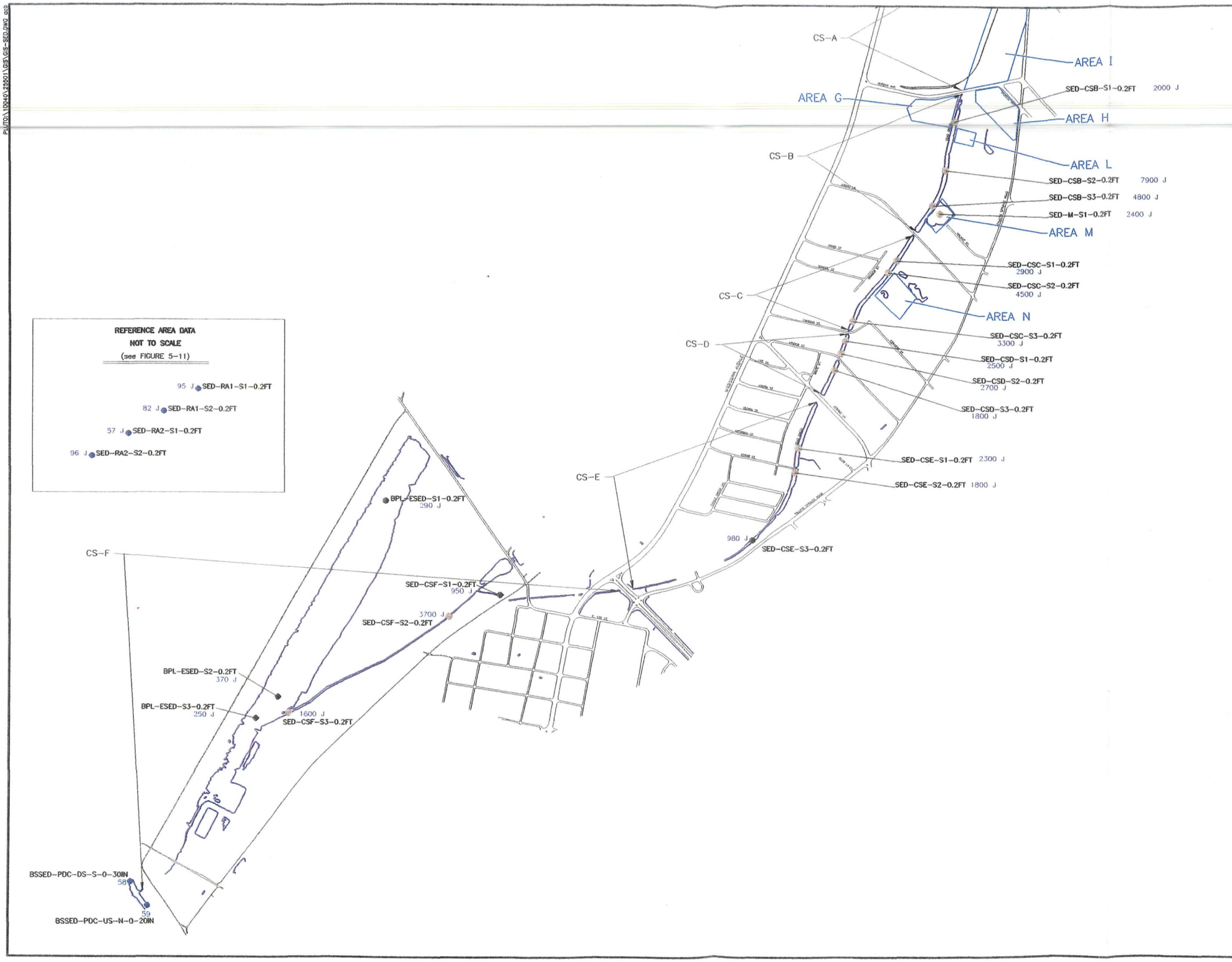
FIGURE 5-9



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = mg/Kg

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS ZINC

600 0 600
SCALE IN FEET

FILE NO. 25501.SED.I
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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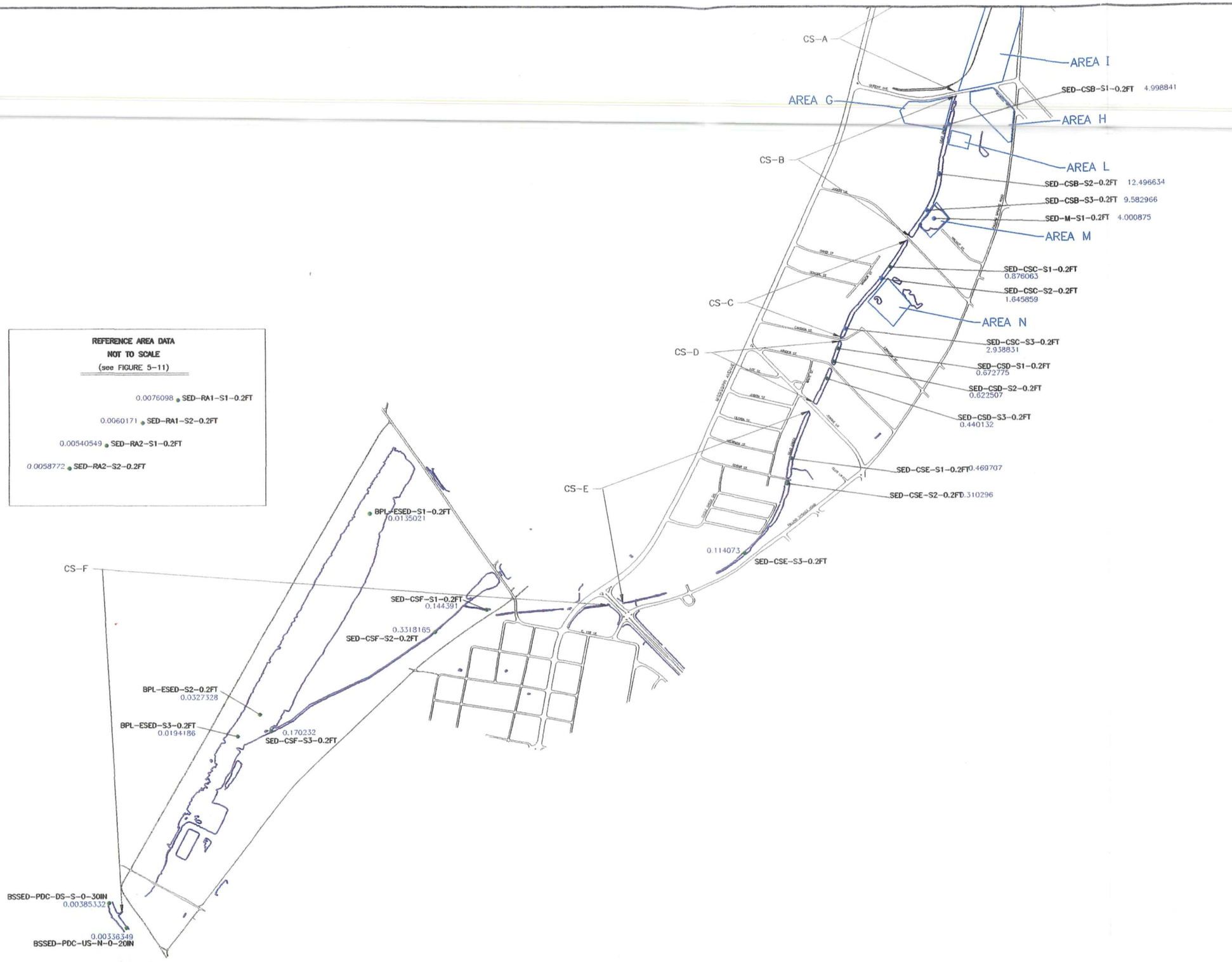
FIGURE 5-10



LEGEND

- NOT DETECTED
- < 1
- 1 – 10
- 10 – 100
- 100 – 1000
- > 1000

CS-A CREEK SEGMENT

AREA H FILL AREA

WATER BODY

NOTE: UNITS = ppb

SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS PCDD/PCDF TEQs

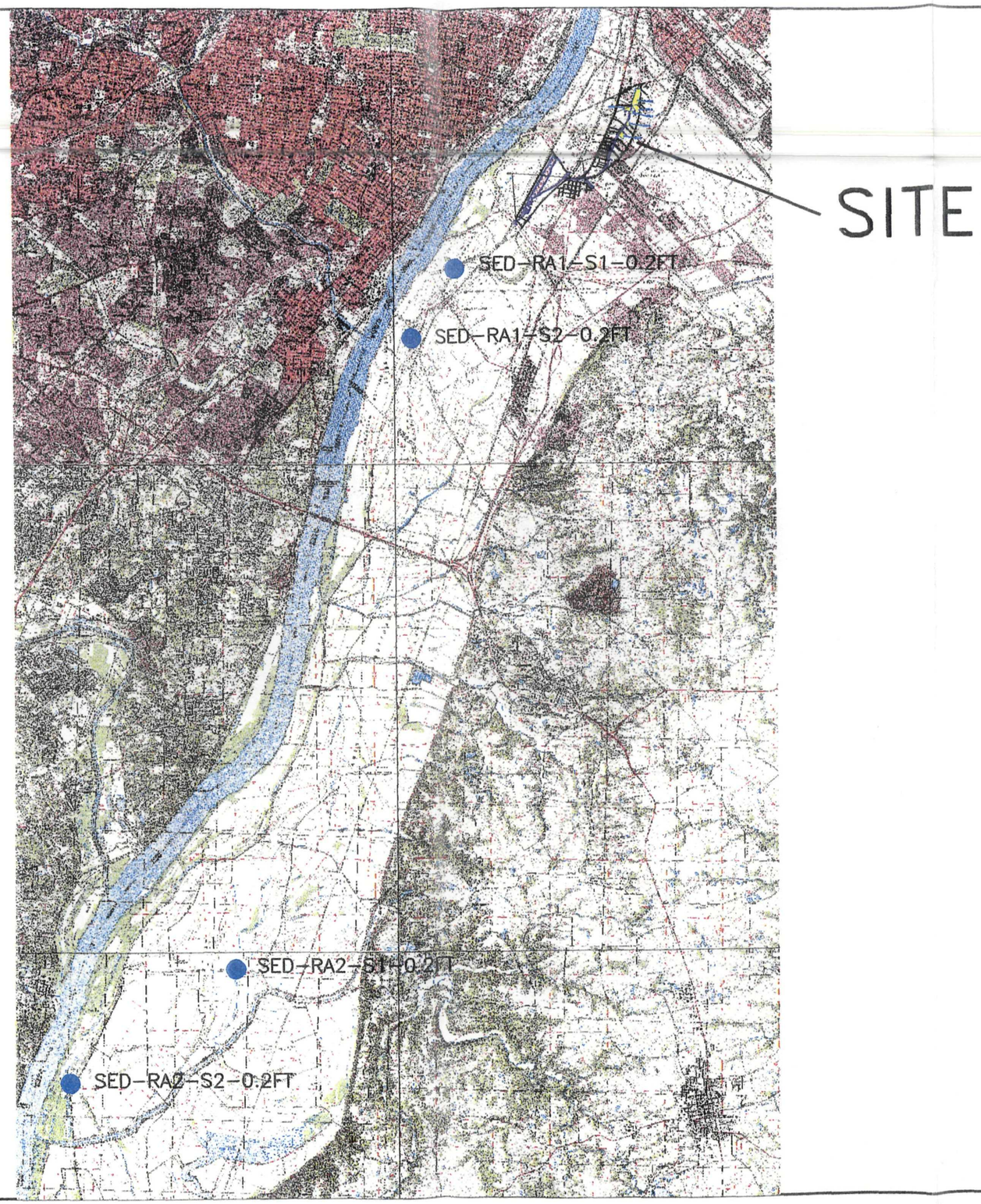
600 0 600
SCALE IN FEET

FILE NO. 25501.SED.J
August 2000

O'BRIEN & GERE ENGINEERS, INC.

PLOTDATE 10/04/2000 25501\GIS\GIS-SED.DWG

FIGURE 5-11



SOLUTIA INC.
REMEDIATION TECHNOLOGY GROUP
ST. LOUIS, MISSOURI

SAUGET AREA 1
SUPPORT SAMPLING PLAN
SAUGET AND CAHOKIA, ILLINOIS

BROAD SCAN/ECOLOGICAL SEDIMENTS REFERENCE AREA LOCATION MAP

1 0 1 2
SCALE IN MILES

FILE NO. 25501.SED-BIG
August 2000

O'BRIEN & GERE ENGINEERS, INC.

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Appendix 6

Sauget Area 1 Support Sampling Plan

Biota Analyses

O'BRIEN & GERE ENGINEERS, INC.

Table 10-1
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4,6-Trichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylphenol (o-cresol)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2-Nitrophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3'-Dichlorobenzidine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Methylphenol/4-Methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4,6-Dinitro-2-methylphenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Bromophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloro-3-methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Nitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Acenaphthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthylene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(b)fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(k)fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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DBF File D:\25501\TEMPDATA.DBF
FXP File D:\25501\TABLEPRS.FXP

File Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 10-1
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Carbazole	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Chrysene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-butylphthalate	170 U	170 U	32 J	19 J	20 J	170 U	170 U
Di-n-octylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzofuran	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Diethylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dimethylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachloroethane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Isophorone	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-di-n-propylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitrosodiphenylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Naphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pentachlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Phenanthrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Phenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethoxy)methane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethyl)ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Ethylhexyl)phthalate	170 U	170 U	210 U	170 U	170 U	170 U	170 U
Total Semivolatiles	ND	ND	32	19	20	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 10-1
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4,6-Trichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylphenol (o-cresol)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2-Nitrophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3'-Dichlorobenzidine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Methylphenol/4-Methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4,6-Dinitro-2-methylphenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Bromophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloro-3-methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Nitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Acenaphthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthylene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(b)fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(k)fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 10-1
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Carbazole	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Chrysene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-butylphthalate	27 J	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-octylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzofuran	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Diethylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dimethylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachloroethane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Isophorone	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-di-n-propylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitrosodiphenylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Naphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pentachlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Phenanthrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Phenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethoxy)methane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethyl)ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Ethylhexyl)phthalate	170 U	130 J	100 J	84 J	100 J	95 J	140 J
Total Semivolatiles	27	130	100	84	100	95	140

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

CONTINUED

O'BRIEN & GERE ENGINEERS, INC.

Table 10-2
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 680 Polychlorinated Biphenyl Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Decachlorobiphenyl		50 U	50 UJ	50 U	50 U	50 U	50 UJ	50 UJ
Dichlorobiphenyl		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Heptachlorobiphenyl		16 J	30 UJ	21 J	30 U	30 U	30 UJ	30 UJ
Hexachlorobiphenyl		120 J	44 J	150	20 U	9.3 J	20 UJ	20 UJ
Monochlorobiphenyl		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Nonachlorobiphenyl		50 U	50 UJ	50 U	50 U	50 U	50 UJ	50 UJ
Octachlorobiphenyl		30 U	30 UJ	30 U	30 U	30 U	30 UJ	30 UJ
Pentachlorobiphenyl		110 J	30 J	130	20 U	9.5 J	20 UJ	20 UJ
Tetrachlorobiphenyl		46 J	20 UJ	19 J	20 U	20 U	20 UJ	20 UJ
Trichlorobiphenyl		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Total PCBs		292	74	320	ND	18.8	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 10-2
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 680 Polychlorinated Biphenyl Data

	Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Decachlorobiphenyl		50 U	100 U	100 U	50 U	50 U	50 U	50 U
Dichlorobiphenyl		10 U	20 U	20 U	10 U	10 U	10 U	10 U
Heptachlorobiphenyl		30 U	60 U	60 U	30 U	30 U	30 U	30 U
Hexachlorobiphenyl		20 U	40 U	40 U	20 U	20 U	20 U	20 U
Monochlorobiphenyl		10 U	20 U	20 U	10 U	10 U	10 U	10 U
Nonachlorobiphenyl		50 U	100 U	100 U	50 U	50 U	50 U	50 U
Octachlorobiphenyl		30 U	60 U	60 U	30 U	30 U	30 U	30 U
Pentachlorobiphenyl		20 U	40 U	40 U	20 U	20 U	20 U	20 U
Tetrachlorobiphenyl		20 U	40 U	40 U	20 U	20 U	20 U	20 U
Trichlorobiphenyl		10 U	20 U	20 U	10 U	10 U	10 U	10 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 10-3
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8081A Pesticide Data

Compound	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
4,4'-DDD		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
4,4'-DDE		13 U	15	21	5.2 J	3.5 J	5.9 J	6.6 J
4,4'-DDT		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Aldrin		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Alpha Chlordane		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Dieldrin		13 U	13 U	13 U	13 U	5.3 U	5.6 J	5.3 J
Endosulfan I		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Endosulfan II		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endosulfan sulfate		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endrin		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endrin aldehyde		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endrin ketone		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Gamma Chlordane		19 J	6.8 U	15	6.8 U	2.7 U	6.8 U	6.8 U
Heptachlor		1.5 J	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Heptachlor epoxide		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Methoxychlor		68 U	68 U	68 U	68 U	27 U	68 U	68 U
Toxaphene		680 U	680 U	680 U	680 U	270 U	680 U	680 U
alpha-BHC		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
beta-BHC		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
delta-BHC		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
gamma-BHC (Lindane)		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Total Pesticides		20.5	15	36	5.2	3.5	11.5	11.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 10-3
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8081A Pesticide Data

Compound	Sample ID	WB BP FILLET 2	WC BP COMP 1	WC BP COMP 2	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	10/04/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
4,4'-DDD		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
4,4'-DDE		9.2 J	13 U	4.0 U	1.2 J	0.80 J	2.6 U	2.6 U
4,4'-DDT		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Aldrin		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Alpha Chlordane		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Dieldrin		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endosulfan I		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Endosulfan II		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endosulfan sulfate		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endrin		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endrin aldehyde		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endrin ketone		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Gamma Chlordane		4.7 J	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Heptachlor		2.0 U	6.8 U	2.0 U	1.3 J	1.1 J	1.8 J	1.4 U
Heptachlor epoxide		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Methoxychlor		20 UJ	68 U	20 UJ	14 U	14 U	14 U	14 U
Toxaphene		110 U	680 U	110 U	72 U	72 U	72 U	72 U
alpha-BHC		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
beta-BHC		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
delta-BHC		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
gamma-BHC (Lindane)		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Total Pesticides		13.9	ND	ND	2.5	1.9	1.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 10-4
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8151A Herbicide Data

Compound	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4,5-T		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
2,4,5-TP (Silvex)		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
2,4-D		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
2,4-DB		10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Dalapon		2000 UJ	2000 UJ	2000 U	2000 U	2000 U	2000 UJ	2000 U
Dicamba		1.9 J	20 UJ	10 U	20 U	20 U	20 UJ	20 U
Dichloroprop		100 UJ	100 UJ	100 U	100 U	100 U	100 UJ	100 U
Dinoseb		100 UJ	100 UJ	100 U	100 U	100 U	100 UJ	100 U
MCPA		2000 U	2000 UJ	1800 J	2000 U	2000 U	2000 UJ	2000 U
MCPP		2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 UJ	2000 U
Pentachlorophenol		10 U	20 UJ	10 U	10 U	10 U	20 UJ	10 U
Total Herbicides		1.9	ND	1800	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 10-4
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8151A Herbicide Data

Sample ID	WB BP FILLET 1	WB BP FILLET 2	WC BP COMP 1	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	11/01/99	11/02/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
2,4,5-T	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2,4,5-TP (Silvex)	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2,4-D	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2,4-DB	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Dalapon	2000 U	2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 U
Dicamba	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
Dichloroprop	100 U	100 U	100 UJ	100 U	100 U	100 U	100 U
Dinoseb	100 U	100 U	100 UJ	100 U	100 U	100 U	100 U
MCPA	2000 U	2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 U
MCPP	2000 U	2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 U
Pentachlorophenol	20 U	20 U	20 UJ	20 U	20 U	3.8 J	20 U
Total Herbicides	ND	ND	ND	ND	ND	3.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 10-5
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 6010B/7471A/9010B Inorganic Data

Compound	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum		13 U	19 J	33 J	35 J	81 J	22 J	27 J
Antimony		0.18 U	0.18 U	0.2 U	0.2 U	0.18 U	0.18 U	0.17 U
Arsenic		4.5 UJ	10 UJ	4.5 UJ	5 UJ	5 UJ	1.8 UJ	5 UJ
Beryllium		0.91 U	0.91 U	1 U	1 U	0.91 U	0.91 U	0.83 U
Cadmium		0.45 U	0.45 U	0.5 U	0.5 U	0.45 U	0.45 U	0.42 U
Chromium		0.55	0.45 J	0.93	0.35 J	0.36 J	0.19 J	0.22 J
Copper		0.41 J	0.52 J	0.68 J	0.84 J	0.48 J	0.36 J	0.4 J
Cyanide, Total		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead		0.45 U	0.45 U	0.5 U	0.5 U	0.45 U	0.45 U	0.42 U
Mercury		0.016 UJ	0.057 J	0.064 J	0.097 J	0.14 J	0.1 J	0.1 J
Nickel		9.1 U	9.1 U	10 U	10 U	9.1 U	9.1 U	8.3 U
Selenium		0.63	0.45 U	0.6	0.5 U	0.53	0.75	0.86
Silver		0.091 U	0.1 U	0.091 U	0.1 U	0.091 U	0.091 U	0.1 U
Zinc		15 J	17 J	19 J	15 J	13 J	9.2 J	8.5 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 10-5
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 6010B/7471A/9010B Inorganic Data

Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
Units	mg/kg	mg/kg	mg/kg dw	mg/kg	mg/kg	mg/kg	mg/kg
Compound							
Aluminum	5.8 UJ	5.8 UJ	8.6 U	5.0 UJ	9.4 U	5.7 UJ	4.9 U
Antimony	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.20 U	0.18 U
Arsenic	0.45 J	1.8 UJ	1.7 UJ	2.0 UJ	1.0 UJ	2.0 UJ	0.91 UJ
Beryllium	0.91 U	0.91 U	0.83 U	0.83 U	0.91 U	1.0 U	0.91 U
Cadmium	0.45 U	0.45 U	0.42 U	0.42 U	0.45 U	0.50 U	0.45 U
Chromium	0.45 U	0.22 J	0.42 U	0.42 U	0.21 J	0.50 U	0.45 U
Copper	0.25 J	0.57 J	1.7 U	0.32 J	0.23 J	2.0 U	0.21 J
Cyanide, Total	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead	0.45 U	0.45 U	0.42 U	0.42 U	0.45 U	0.50 U	0.45 U
Mercury	0.02 UJ	0.10 UJ	0.027 J	0.037 J	0.052 J	0.052 J	0.041 J
Nickel	9.1 U	9.1 U	8.3 U	8.3 U	9.1 U	10 U	9.1 U
Selenium	0.45 U	0.45 U	0.42 U	0.42 U	0.45 U	0.73	0.45 U
Silver	0.091 U	0.091 U	0.083 U	0.083 U	0.091 U	0.10 U	0.091 U
Zinc	7.9 J	7.1 J	9.2 J	7.1 J	7.0 J	6.4 J	5.4 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 10-6
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8290 PCDD/PCDF Data

Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,3,4,6,7,8,9-OCDD	0.0086 M	0.0161 M	0.0145 M	0.0123	0.0105	0.0106	0.0055
1,2,3,4,6,7,8,9-OCDF	0.0017 M	0.0021 M	0.0025 M	0.001 U	0.0007 U	0.0008 U	0.0018 U
1,2,3,4,6,7,8-HpCDD	0.0014 M	0.002 M	0.0018 M	0.0008 U	0.0005 U	0.0007 U	0.0014 U
1,2,3,4,6,7,8-HpCDF	0.0001 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0004 U	0.0007 U
1,2,3,4,7,8,9-HpCDF	0.0002 U	0.0003 U	0.0005 U	0.0008 U	0.0005 U	0.0006 U	0.0012 U
1,2,3,4,7,8-HxCDD	0.0002 U	0.0003 U	0.0004 U	0.0006 U	0.0003 U	0.0004 U	0.001 U
1,2,3,4,7,8-HxCDF	0.00048	0.0002 U	0.0003 U	0.00084	0.0002 U	0.0011	0.0011
1,2,3,6,7,8-HxCDD	0.00054	0.00038 M	0.0003 U	0.0005 U	0.0003 U	0.0003 U	0.0008 U
1,2,3,6,7,8-HxCDF	0.00023	0.0002 U	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0006 U
1,2,3,7,8,9-HxCDD	0.0001 U	0.0003 U	0.0004 U	0.0007 U	0.0003 U	0.0004 U	0.0011 U
1,2,3,7,8,9-HxCDF	0.0001 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0003 U	0.0008 U
1,2,3,7,8-PeCDD	0.00076 M	0.00063 M	0.00081	0.0006 U	0.0004 U	0.0005 U	0.0011 U
1,2,3,7,8-PeCDF	0.00008 U	0.0001 U	0.0011	0.0004 U	0.0002 U	0.0003 U	0.0006 U
2,3,4,6,7,8-HxCDF	0.00038	0.0002 U	0.0003 U	0.0004 U	0.0002 U	0.0003 U	0.0007 U
2,3,4,7,8-PeCDF	0.00071	0.00062 M	0.00097	0.0004 U	0.0002 U	0.0003 U	0.0006 U
2,3,7,8-TCDD	0.0009	0.00075	0.0011 M	0.0004 U	0.0003 U	0.0003 U	0.0008 U
2,3,7,8-TCDF	0.0114	0.0083	0.0081	0.0003 U	0.0002 U	0.0016 J	0.0006 U
1998 Total TEQ w/ EMPC as ND	0.00294793	0.002113305	0.002776225	0.00077673	0.00046505	0.00079906	0.00137105

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 10-6
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8290 PCDD/PCDF Data

Compound	Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2,3,4,6,7,8,9-OCDD		0.099 M	0.0046 M	0.0014 M	0.0184 M	0.0098 M	0.0008 U	0.0027 M
1,2,3,4,6,7,8,9-OCDF		0.0212 M	0.0006 U	0.0004 U	0.0038 M	0.0016 M	0.0006 U	0.0006 U
1,2,3,4,6,7,8-HpCDD		0.0134	0.0005 U	0.0003 U	0.0023 M	0.0012 M	0.0005 U	0.0005 U
1,2,3,4,6,7,8-HpCDF		0.0025	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.0003 U	0.0002 U
1,2,3,4,7,8,9-HpCDF		0.0004 U	0.0004 U	0.0003 U	0.0003 U	0.0006 U	0.0004 U	0.0003 U
1,2,3,4,7,8-HxCDD		0.0003 U	0.0003 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0002 U
1,2,3,4,7,8-HxCDF		0.0002 U	0.0002 U	0.0001 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U
1,2,3,6,7,8-HxCDD		0.0003 U	0.0003 U	0.0002 U	0.0002 U	0.0004 U	0.0003 U	0.0002 U
1,2,3,6,7,8-HxCDF		0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0003 U	0.0002 U	0.0001 U
1,2,3,7,8,9-HxCDD		0.0003 U	0.0003 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0002 U
1,2,3,7,8,9-HxCDF		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.0002 U	0.0002 U
1,2,3,7,8-PeCDD		0.0003 U	0.0003 U	0.0002 U	0.0002 U	0.0004 U	0.0003 U	0.0002 U
1,2,3,7,8-PeCDF		0.0002 U	0.0002 U	0.0001 U	0.0002 M	0.0013	0.0002 U	0.0002 U
2,3,4,6,7,8-HxCDF		0.0002 U	0.0002 U	0.0001 U	0.0002 U	0.0003 U	0.0002 U	0.0002 U
2,3,4,7,8-PeCDF		0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0003 U	0.0002 U	0.0002 U
2,3,7,8-TCDD		0.0231	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.0002 U	0.0002 U
2,3,7,8-TCDF		0.0011	0.0016	0.0012	0.0001 U	0.0003 U	0.0002 U	0.0002 U
1998 Total TEQ w/ EMPC as ND		0.02362395	0.00051373	0.00037507	0.00028342	0.00062849	0.00036404	0.000298635

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 10-6
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8290 PCDD/PCDF Data

	Sample ID	WC REF2 COMP 2FD
	Sample Date	01/25/00
	Units	ug/kg
Compound		
1,2,3,4,6,7,8,9-OCDD		0.0005 U
1,2,3,4,6,7,8,9-OCDF		0.0004 U
1,2,3,4,6,7,8-HpCDD		0.0003 U
1,2,3,4,6,7,8-HpCDF		0.0002 U
1,2,3,4,7,8,9-HpCDF		0.0003 U
1,2,3,4,7,8-HxCDD		0.0002 U
1,2,3,4,7,8-HxCDF		0.0001 U
1,2,3,6,7,8-HxCDD		0.0002 U
1,2,3,6,7,8-HxCDF		0.0001 U
1,2,3,7,8,9-HxCDD		0.0002 U
1,2,3,7,8,9-HxCDF		0.0002 U
1,2,3,7,8-PeCDD		0.0001 U
1,2,3,7,8-PeCDF		0.0001 U
2,3,4,6,7,8-HxCDF		0.0001 U
2,3,4,7,8-PeCDF		0.0001 U
2,3,7,8-TCDD		0.0001 U
2,3,7,8-TCDF		0.00039
1998 Total TEQ w/ EMPC as ND		0.000194025

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 10-7
Solutia
Sauget Area 1
Biota - Fish Fillets
Method EX41 Lipids Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		1.8	1.5	1.5	0.87	0.66	2.4	0.83

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 10-7
Solutia
Sauget Area 1
Biota - Fish Fillets
Method EX41 Lipids Data

	Sample ID	WB BP FILLET 1	WB BP FILLET 2	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2
	Sample Date	10/04/99	10/04/99	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		0.20	1.5	0.15	0.18	0.16	0.56	0.25

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Date Printed: 08 14:59:22
DBF File: D:\255\ .PDATA.DBF
FXP File: D:\25501\ ABLEPRS.FXP

mber 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 10-7
Solutia
Sauget Area 1
Biota - Fish Fillets
Method EX41 Lipids Data

	Sample ID	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	11/02/99	11/02/99
	Units	%	%
Compound			
% Lipids		0.59	0.48

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Date Printed: 08/30/00 14:59:22
DBF File: D:\25501\TEMPDATA.DBF
FXP File: D:\25501\TABLEPRS.FXP

File Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	BB BP COMP 1	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1	CLAM BP-1 COMP 01
Sample Date	11/01/99	10/07/99	10/07/99	10/08/99	10/08/99	11/02/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4,6-Trichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylphenol (o-cresol)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2-Nitrophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3'-Dichlorobenzidine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Methylphenol/4-Methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4,6-Dinitro-2-methylphenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Bromophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloro-3-methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Nitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Acenaphthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthylene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(b)fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(k)fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	BB BP COMP 1	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1	CLAM BP-1 COMP 01
	Sample Date	11/01/99	10/07/99	10/07/99	10/08/99	10/08/99	11/02/99	10/06/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Butylbenzylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Carbazole		170 U	170 U	---	170 U	170 U	---	170 U
Chrysene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-butylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-octylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzofuran		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Diethylphthalate		18	170 U	170 U	25	170 U	170 U	53
Dimethylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluoranthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachloroethane		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Isophorone		170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-di-n-propylamine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitrosodiphenylamine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Naphthalene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pentachlorophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
Phenanthrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Phenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethoxy)methane		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethyl)ether		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Ethylhexyl)phthalate		97	170 U	170 U	170 U	46	47 J	73 J
Total Semivolatiles		115	ND	ND	25	46	47	126

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F.F. BP COMP 1	F.F. BP COMP 2
Sample Date	10/07/99	10/06/99	10/08/99	10/08/99	10/09/99	10/04/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
1,2-Dichlorobenzene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
1,3-Dichlorobenzene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
1,4-Dichlorobenzene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2,2'-Oxybis(1-Chloropropane)	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2,4,5-Trichlorophenol	840 U	420 U	420 U	420 U	420 U	420 U	840 U
2,4,6-Trichlorophenol	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2,4-Dichlorophenol	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2,4-Dinitrophenol	840 U	420 U	420 U	420 U	420 U	420 U	840 U
2,4-Dinitrotoluene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2,6-Dinitrotoluene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2-Chloronaphthalene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2-Chlorophenol	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2-Methylnaphthalene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2-Methylphenol (o-cresol)	340 U	170 U	170 U	170 U	170 U	170 U	340 U
2-Nitroaniline	840 U	420 U	420 U	420 U	420 U	420 U	840 U
2-Nitrophenol	340 U	170 U	170 U	170 U	170 U	170 U	340 U
3,3'-Dichlorobenzidine	340 U	170 U	170 U	170 U	170 U	170 U	340 U
3-Methylphenol/4-Methylphenol	340 U	170 U	170 U	170 U	170 U	170 U	340 U
3-Nitroaniline	840 U	420 U	420 U	420 U	420 U	420 U	840 U
4,6-Dinitro-2-methylphenol	840 U	420 U	420 U	420 U	420 U	420 U	840 U
4-Bromophenylphenyl ether	340 U	170 U	170 U	170 U	170 U	170 U	340 U
4-Chloro-3-methylphenol	340 U	170 U	170 U	170 U	170 U	170 U	340 U
4-Chloroaniline	340 U	170 U	170 U	170 U	170 U	170 U	340 U
4-Chlorophenylphenyl ether	340 U	170 U	170 U	170 U	170 U	170 U	340 U
4-Nitroaniline	840 U	420 U	420 U	420 U	420 U	420 U	840 U
4-Nitrophenol	840 U	420 U	420 U	420 U	420 U	420 U	840 U
Acenaphthene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Acenaphthylene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Anthracene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Benzo(a)anthracene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Benzo(a)pyrene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Benzo(b)fluoranthene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Benzo(g,h,i)perylene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Benzo(k)fluoranthene	340 U	170 U	170 U	170 U	170 U	170 U	340 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F.F. BP COMP 1	F.F. BP COMP 2
Sample Date	10/07/99	10/06/99	10/08/99	10/08/99	10/09/99	10/04/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Carbazole	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Chrysene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Di-n-butylphthalate	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Di-n-octylphthalate	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Dibenzo(a,h)anthracene	340 U	170 U	170 U	170 U	170 U	170 U	48
Dibenzofuran	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Diethylphthalate	120	53	59	52	49	19	37
Dimethylphthalate	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Fluoranthene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Fluorene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Hexachlorobenzene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Hexachlorobutadiene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Hexachlorocyclopentadiene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Hexachloroethane	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Indeno(1,2,3-cd)pyrene	340 U	170 U	170 U	170 U	170 U	170 U	54
Isophorone	340 U	170 U	170 U	170 U	170 U	170 U	340 U
N-Nitroso-di-n-propylamine	340 U	170 U	170 U	170 U	170 U	170 U	340 U
N-Nitrosodiphenylamine	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Naphthalene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Nitrobenzene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Pentachlorophenol	840 U	420 U	420 U	420 U	420 U	420 U	840 U
Phenanthrene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Phenol	340 U	170 U	170 U	170 U	170 U	170 U	340 U
Pyrene	340 U	170 U	170 U	170 U	170 U	170 U	340 U
bis(2-Chloroethoxy)methane	340 U	170 U	170 U	170 U	170 U	170 U	340 U
bis(2-Chloroethyl)ether	340 U	170 U	170 U	170 U	170 U	170 U	340 U
bis(2-Ethylhexyl)phthalate	170 J	55 J	73 J	47 J	66 J	150	230
Total Semivolatiles	290	108	132	99	115	169	369

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	F F. BP COMP 3	F.F. CS B COMP 1	F F. CS-D COMP 1	F.F. REF 1 COMP 1	F F REF 2 COMP 1	F F. REF 2 COMP 2	FF REF 2 COMP 3
Sample Date	10/06/99	10/05/99	10/04/99	10/08/99	10/08/99	10/08/99	10/08/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
1,2-Dichlorobenzene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
1,3-Dichlorobenzene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
1,4-Dichlorobenzene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2,2'-Oxybis(1-Chloropropane)	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2,4,5-Trichlorophenol	840 U	840 U	420 U	420 U	420 U	840 U	420 U
2,4,6-Trichlorophenol	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2,4-Dichlorophenol	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2,4-Dinitrophenol	840 U	840 U	420 U	420 U	420 U	840 U	420 U
2,4-Dinitrotoluene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2,6-Dinitrotoluene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2-Chloronaphthalene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2-Chlorophenol	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2-Methylnaphthalene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2-Methylphenol (o-cresol)	340 U	340 U	170 U	170 U	170 U	340 U	170 U
2-Nitroaniline	840 U	840 U	420 U	420 U	420 U	840 U	420 U
2-Nitrophenol	340 U	340 U	170 U	170 U	170 U	340 U	170 U
3,3'-Dichlorobenzidine	340 U	340 U	170 U	170 U	170 U	340 U	170 U
3-Methylphenol/4-Methylphenol	340 U	340 U	170 U	170 U	170 U	340 U	170 U
3-Nitroaniline	840 U	840 U	420 U	420 U	420 U	840 U	420 U
4,6-Dinitro-2-methylphenol	840 U	840 U	420 U	420 U	420 U	840 U	420 U
4-Bromophenylphenyl ether	340 U	340 U	170 U	170 U	170 U	340 U	170 U
4-Chloro-3-methylphenol	340 U	340 U	170 U	170 U	170 U	340 U	170 U
4-Chloroaniline	340 U	340 U	170 U	170 U	170 U	340 U	170 U
4-Chlorophenylphenyl ether	340 U	340 U	170 U	170 U	170 U	340 U	170 U
4-Nitroaniline	840 U	840 U	420 U	420 U	420 U	840 U	420 U
4-Nitrophenol	840 U	840 U	420 U	420 U	420 U	840 U	420 U
Acenaphthene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Acenaphthylene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Anthracene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Benzo(a)anthracene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Benzo(a)pyrene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Benzo(b)fluoranthene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Benzo(g,h,i)perylene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Benzo(k)fluoranthene	340 U	340 U	170 U	170 U	170 U	340 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	F.F. BP COMP 3	F.F. CS B COMP 1	F.F CS-D COMP 1	F.F. REF 1 COMP 1	F F. REF 2 COMP 1	F.F. REF 2 COMP 2	FF REF 2 COMP 3
Sample Date	10/06/99	10/05/99	10/04/99	10/08/99	10/08/99	10/08/99	10/08/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Carbazole	340 U	340 U	170 U	170 U	170 U	340 U	---
Chrysene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Di-n-butylphthalate	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Di-n-octylphthalate	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Dibenzo(a,h)anthracene	340 U	340 U	22	170 U	170 U	340 U	170 U
Dibenzofuran	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Diethylphthalate	36	93	22	18	20	340 U	37 J
Dimethylphthalate	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Fluoranthene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Fluorene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Hexachlorobenzene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Hexachlorobutadiene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Hexachlorocyclopentadiene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Hexachloroethane	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Indeno(1,2,3-cd)pyrene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Isophorone	340 U	340 U	170 U	170 U	170 U	340 U	170 U
N-Nitroso-di-n-propylamine	340 U	340 U	170 U	170 U	170 U	340 U	170 U
N-Nitrosodiphenylamine	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Naphthalene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Nitrobenzene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Pentachlorophenol	840 U	840 U	420 U	420 U	420 U	840 U	420 U
Phenanthrene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Phenol	340 U	340 U	170 U	170 U	170 U	340 U	170 U
Pyrene	340 U	340 U	170 U	170 U	170 U	340 U	170 U
bis(2-Chloroethoxy)methane	340 U	340 U	170 U	170 U	170 U	340 U	170 U
bis(2-Chloroethyl)ether	340 U	340 U	170 U	170 U	170 U	340 U	170 U
bis(2-Ethylhexyl)phthalate	340 U	340 U	130	170	280	99	140 J
Total Semivolatiles	36	93	174	188	300	99	177

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	---	---	---	---	---	---	---
1,2-Dichlorobenzene	---	---	---	---	---	---	---
1,3-Dichlorobenzene	---	---	---	---	---	---	---
1,4-Dichlorobenzene	---	---	---	---	---	---	---
2,2'-Oxybis(1-Chloropropane)	---	---	---	---	---	---	---
2,4,5-Trichlorophenol	---	---	---	---	---	---	---
2,4,6-Trichlorophenol	---	---	---	---	---	---	---
2,4-Dichlorophenol	---	---	---	---	---	---	---
2,4-Dinitrophenol	---	---	---	---	---	---	---
2,4-Dinitrotoluene	---	---	---	---	---	---	---
2,6-Dinitrotoluene	---	---	---	---	---	---	---
2-Chloronaphthalene	---	---	---	---	---	---	---
2-Chlorophenol	---	---	---	---	---	---	---
2-Methylnaphthalene	---	---	---	---	---	---	---
2-Methylphenol (o-cresol)	---	---	---	---	---	---	---
2-Nitroaniline	---	---	---	---	---	---	---
2-Nitrophenol	---	---	---	---	---	---	---
3,3'-Dichlorobenzidine	---	---	---	---	---	---	---
3-Methylphenol/4-Methylphenol	---	---	---	---	---	---	---
3-Nitroaniline	---	---	---	---	---	---	---
4,6-Dinitro-2-methylphenol	---	---	---	---	---	---	---
4-Bromophenylphenyl ether	---	---	---	---	---	---	---
4-Chloro-3-methylphenol	---	---	---	---	---	---	---
4-Chloroaniline	---	---	---	---	---	---	---
4-Chlorophenylphenyl ether	---	---	---	---	---	---	---
4-Nitroaniline	---	---	---	---	---	---	---
4-Nitrophenol	---	---	---	---	---	---	---
Acenaphthene	---	---	---	---	---	---	---
Acenaphthylene	---	---	---	---	---	---	---
Anthracene	---	---	---	---	---	---	---
Benzo(a)anthracene	---	---	---	---	---	---	---
Benzo(a)pyrene	---	---	---	---	---	---	---
Benzo(b)fluoranthene	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	---	---	---	---	---	---	---
Benzo(k)fluoranthene	---	---	---	---	---	---	---

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	---	---	---	---	---	---	---
Carbazole	---	---	---	---	---	---	---
Chrysene	---	---	---	---	---	---	---
Di-n-butylphthalate	---	---	---	---	---	---	---
Di-n-octylphthalate	---	---	---	---	---	---	---
Dibenzo(a,h)anthracene	---	---	---	---	---	---	---
Dibenzofuran	---	---	---	---	---	---	---
Diethylphthalate	---	---	---	---	---	---	---
Dimethylphthalate	---	---	---	---	---	---	---
Fluoranthene	---	---	---	---	---	---	---
Fluorene	---	---	---	---	---	---	---
Hexachlorobenzene	---	---	---	---	---	---	---
Hexachlorobutadiene	---	---	---	---	---	---	---
Hexachlorocyclopentadiene	---	---	---	---	---	---	---
Hexachloroethane	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	---	---	---	---	---	---	---
Isophorone	---	---	---	---	---	---	---
N-Nitroso-di-n-propylamine	---	---	---	---	---	---	---
N-Nitrosodiphenylamine	---	---	---	---	---	---	---
Naphthalene	---	---	---	---	---	---	---
Nitrobenzene	---	---	---	---	---	---	---
Pentachlorophenol	---	---	---	---	---	---	---
Phenanthrene	---	---	---	---	---	---	---
Phenol	---	---	---	---	---	---	---
Pyrene	---	---	---	---	---	---	---
bis(2-Chloroethoxy)methane	---	---	---	---	---	---	---
bis(2-Chloroethyl)ether	---	---	---	---	---	---	---
bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	---
Total Semivolatiles	ND	ND	32	19	20	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	PTISS B-1 DC B	PTISS B-2 DC B	PTISS B-3 DC B	PTISS C-1 DC C	PTISS C-2 DC C	PTISS C-3 DC C	PTISS D-1 DC D
Sample Date	10/05/99	10/05/99	10/05/99	10/04/99	10/04/99	10/04/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4,6-Trichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylphenol (o-cresol)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2-Nitrophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3'-Dichlorobenzidine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Methylphenol/4-Methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4,6-Dinitro-2-methylphenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Bromophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloro-3-methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Nitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Acenaphthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthylene	69 J	170 U	170 U	170 U	170 U	170 U	170 U
Anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene	670	170 U	170 U	18 J	170 U	170 U	170 U
Benzo(b)fluoranthene	430	170 U	170 U	26 J	18 J	170 U	170 U
Benzo(g,h,i)perylene	500	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(k)fluoranthene	320	170 U	170 U	25 J	30 J	170 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	PTISS B-1 DC B	PTISS B-2 DC B	PTISS B-3 DC B	PTISS C-1 DC C	PTISS C-2 DC C	PTISS C-3 DC C	PTISS D-1 DC D
Sample Date	10/05/99	10/05/99	10/05/99	10/04/99	10/04/99	10/04/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Carbazole	---	---	---	---	---	---	---
Chrysene	170 U	170 U	170 U	22 J	25 J	170 U	170 U
Di-n-butylphthalate	170 U	170 U	170 U	170 U	170 U	14 J	170 U
Di-n-octylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene	110 J	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzofuran	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Diethylphthalate	15 J	170 U	170 U	170 U	170 U	13 J	170 U
Dimethylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluoranthene	170 U	170 U	170 U	25 J	32 J	170 U	170 U
Fluorene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachloroethane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene	520	170 U	170 U	30 J	23 J	170 U	170 U
Isophorone	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-di-n-propylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitrosodiphenylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Naphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pentachlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Phenanthrene	170 U	170 U	170 U	17 J	16 J	170 U	170 U
Phenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene	170 U	170 U	170 U	22 J	29 J	170 U	170 U
bis(2-Chloroethoxy)methane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethyl)ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Ethylhexyl)phthalate	170 U	170 U	94 J	53 J	93 J	170 U	170 U
Total Semivolatiles	2729	ND	94	238	266	27	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	PTISS D-2 DC D	PTISS D-3 DC D	PTISS E-1 DC E	PTISS E-2 DC E	PTISS F-1 DC F	PTISS F-3 DC F	PTISS PRAIRIE DUPONT R2
Sample Date	10/04/99	10/04/99	10/06/99	10/06/99	10/07/99	10/07/99	10/08/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4,6-Trichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylphenol (o-cresol)	170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
2-Nitrophenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3'-Dichlorobenzidine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Methylphenol/4-Methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4,6-Dinitro-2-methylphenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Bromophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloro-3-methylphenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenylphenyl ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline	420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Nitrophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Acenaphthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthylene	170 U	170 U	170 U	170 U	32 J	170 U	170 U
Anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)anthracene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene	170 U	34 J	170 U	170 U	140 J	170 U	37 J
Benzo(b)fluoranthene	170 U	170 U	170 U	170 U	59 J	170 U	16 J
Benzo(g,h,i)perylene	170 U	68 J	170 U	39 J	360	170 U	390
Benzo(k)fluoranthene	170 U	25 J	170 U	170 U	52 J	170 U	21 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	PTISS D-2 DC D	PTISS D-3 DC D	PTISS E-1 DC E	PTISS E-2 DC E	PTISS F-1 DC F	PTISS F-3 DC F	PTISS PRAIRIE DUPONT R2
Sample Date	10/04/99	10/04/99	10/06/99	10/06/99	10/07/99	10/07/99	10/08/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Carbazole	---	---	---	---	---	---	---
Chrysene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-butylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-octylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene	170 U	68 J	170 U	30 J	76 J	170 U	400
Dibenzofuran	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Diethylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dimethylphthalate	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluoranthene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachloroethane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene	170 U	78 J	170 U	38 J	300	170 U	440
Isophorone	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-di-n-propylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitrosodiphenylamine	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Naphthalene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pentachlorophenol	420 U	420 U	420 U	420 U	420 U	420 U	420 U
Phenanthrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Phenol	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethoxy)methane	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethyl)ether	170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Ethylhexyl)phthalate	170 U	170 U	50 J	170 U	170 U	170 U	170 U
Total Semivolatiles	ND	273	50	107	1070	ND	1304

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	PTISS REF 2-1 RC	SHRIMP BP COMP	SHRIMP REF1 COMP	SHRIMP REF2 COMP	SN REF1 COMP 1	SN REF2-1 COMP1	SNCS-B COMP1
Sample Date	10/08/99	10/06/99	10/07/99	10/08/99	10/08/99	10/08/99	10/05/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
1,2-Dichlorobenzene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
1,3-Dichlorobenzene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
1,4-Dichlorobenzene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2,4,5-Trichlorophenol	420 U	840 U	840 U	840 U	840 U	420 U	420 U
2,4,6-Trichlorophenol	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2,4-Dichlorophenol	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2,4-Dinitrophenol	420 U	840 U	840 U	840 U	840 U	420 U	420 U
2,4-Dinitrotoluene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2,6-Dinitrotoluene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2-Chloronaphthalene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2-Chlorophenol	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2-Methylnaphthalene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2-Methylphenol (o-cresol)	170 U	340 U	340 U	340 U	340 U	170 U	170 U
2-Nitroaniline	420 U	840 U	840 U	840 U	840 U	420 U	420 U
2-Nitrophenol	170 U	340 U	340 U	340 U	340 U	170 U	170 U
3,3'-Dichlorobenzidine	170 U	340 U	340 U	340 U	340 U	170 U	170 U
3-Methylphenol/4-Methylphenol	170 U	340 U	340 U	340 U	140 J	170 U	63 J
3-Nitroaniline	420 U	840 U	840 U	840 U	840 U	420 U	420 U
4,6-Dinitro-2-methylphenol	420 U	840 U	840 U	840 U	840 U	420 U	420 U
4-Bromophenylphenyl ether	170 U	340 U	340 U	340 U	340 U	170 U	170 U
4-Chloro-3-methylphenol	170 U	340 U	340 U	340 U	340 U	170 U	170 U
4-Chloroaniline	170 U	340 U	340 U	340 U	340 U	170 U	170 U
4-Chlorophenylphenyl ether	170 U	340 U	340 U	340 U	340 U	170 U	170 U
4-Nitroaniline	420 U	840 U	840 U	840 U	840 U	420 U	420 U
4-Nitrophenol	420 U	840 U	840 U	840 U	840 U	420 U	420 U
Acenaphthene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Acenaphthylene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Anthracene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Benzo(a)anthracene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Benzo(a)pyrene	15 J	340 U	340 U	340 U	340 U	170 U	170 U
Benzo(b)fluoranthene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Benzo(g,h,i)perylene	240	340 U	340 U	340 U	340 U	170 U	170 U
Benzo(k)fluoranthene	170 U	340 U	340 U	340 U	340 U	170 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	PTISS REF 2-1 RC	SHRIMP BP COMP	SHRIMP REF1 COMP	SHRIMP REF2 COMP	SN REF1 COMP 1	SN REF2-1 COMP1	SNCS-B COMP1
Sample Date	10/08/99	10/06/99	10/07/99	10/08/99	10/08/99	10/08/99	10/05/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Carbazole	---	340 U	340 U	340 U	340 U	170 U	170 U
Chrysene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Di-n-butylphthalate	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Di-n-octylphthalate	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Dibenzo(a,h)anthracene	180	340 U	340 U	340 U	340 U	170 U	170 U
Dibenzofuran	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Diethylphthalate	170 U	44	59	57	62	58	54
Dimethylphthalate	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Fluoranthene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Fluorene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Hexachlorobenzene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Hexachlorobutadiene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Hexachlorocyclopentadiene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Hexachloroethane	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Indeno(1,2,3-cd)pyrene	220	340 U	340 U	340 U	340 U	170 U	170 U
Isophorone	170 U	340 U	340 U	340 U	340 U	170 U	170 U
N-Nitroso-di-n-propylamine	170 U	340 U	340 U	340 U	340 U	170 U	170 U
N-Nitrosodiphenylamine	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Naphthalene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Nitrobenzene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Pentachlorophenol	420 U	840 U	840 U	840 U	840 U	420 U	420 U
Phenanthrene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Phenol	170 U	340 U	340 U	340 U	340 U	170 U	170 U
Pyrene	170 U	340 U	340 U	340 U	340 U	170 U	170 U
bis(2-Chloroethoxy)methane	170 U	340 U	340 U	340 U	340 U	170 U	170 U
bis(2-Chloroethyl)ether	170 U	340 U	340 U	340 U	340 U	170 U	170 U
bis(2-Ethylhexyl)phthalate	170 U	340 U	98 J	92 J	150 J	78 J	110 J
Total Semivolatiles	655	44	157	149	352	136	227

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	SNCS-C COMP1	SNCS-D COMP1	SRM (NIST 1974)	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1
Sample Date	10/04/99	10/04/99	01/26/00	10/04/99	11/01/99	11/01/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,4-Trichlorobenzene	170 U	170 U	170 U	---	---	---	---
1,2-Dichlorobenzene	170 U	170 U	170 U	---	---	---	---
1,3-Dichlorobenzene	170 U	170 U	170 U	---	---	---	---
1,4-Dichlorobenzene	170 U	170 U	170 U	---	---	---	---
2,2'-Oxybis(1-Chloropropane)	170 U	170 U	170 U	---	---	---	---
2,4,5-Trichlorophenol	420 U	420 U	420 U	---	---	---	---
2,4,6-Trichlorophenol	170 U	170 U	170 U	---	---	---	---
2,4-Dichlorophenol	170 U	170 U	170 U	---	---	---	---
2,4-Dinitrophenol	420 U	420 U	420 U	---	---	---	---
2,4-Dinitrotoluene	170 U	170 U	170 U	---	---	---	---
2,6-Dinitrotoluene	170 U	170 U	170 U	---	---	---	---
2-Chloronaphthalene	170 U	170 U	170 U	---	---	---	---
2-Chlorophenol	170 U	170 U	170 U	---	---	---	---
2-Methylnaphthalene	170 U	170 U	170 U	---	---	---	---
2-Methylphenol (o-cresol)	170 U	170 U	170 U	---	---	---	---
2-Nitroaniline	420 U	420 U	420 U	---	---	---	---
2-Nitrophenol	170 U	170 U	170 U	---	---	---	---
3,3'-Dichlorobenzidine	170 U	170 U	170 U	---	---	---	---
3-Methylphenol/4-Methylphenol	170 U	8200	170 U	---	---	---	---
3-Nitroaniline	420 U	420 U	420 U	---	---	---	---
4,6-Dinitro-2-methylphenol	420 U	420 U	420 U	---	---	---	---
4-Bromophenylphenyl ether	170 U	170 U	170 U	---	---	---	---
4-Chloro-3-methylphenol	170 U	170 U	170 U	---	---	---	---
4-Chloroaniline	170 U	170 U	170 U	---	---	---	---
4-Chlorophenylphenyl ether	170 U	170 U	170 U	---	---	---	---
4-Nitroaniline	420 U	420 U	420 U	---	---	---	---
4-Nitrophenol	420 U	420 U	420 U	---	---	---	---
Acenaphthene	170 U	170 U	170 U	---	---	---	---
Acenaphthylene	170 U	170 U	170 U	---	---	---	---
Anthracene	170 U	170 U	170 U	---	---	---	---
Benzo(a)anthracene	170 U	170 U	170 U	---	---	---	---
Benzo(a)pyrene	31 J	170 U	170 U	---	---	---	---
Benzo(b)fluoranthene	79 J	170 U	170 U	---	---	---	---
Benzo(g,h,i)perylene	170 U	170 U	170 U	---	---	---	---
Benzo(k)fluoranthene	170 U	170 U	170 U	---	---	---	---

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	SNCS-C COMP1	SNCS-D COMP1	SRM (NIST 1974)	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1
Sample Date	10/04/99	10/04/99	01/26/00	10/04/99	11/01/99	11/01/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Butylbenzylphthalate	170 U	170 U	170 U	---	---	---	---
Carbazole	170 U	170 U	170 U	---	---	---	---
Chrysene	34 J	170 U	170 U	---	---	---	---
Di-n-butylphthalate	170 U	170 U	170 U	---	---	---	---
Di-n-octylphthalate	170 U	170 U	170 U	---	---	---	---
Dibenzo(a,h)anthracene	170 U	170 U	170 U	---	---	---	---
Dibenzofuran	170 U	170 U	170 U	—	---	---	---
Diethylphthalate	63	57	32	---	---	---	---
Dimethylphthalate	170 U	170 U	170 U	---	---	---	---
Fluoranthene	170 U	170 U	170 U	---	---	---	---
Fluorene	170 U	170 U	170 U	---	---	---	---
Hexachlorobenzene	170 U	170 U	170 U	---	---	---	---
Hexachlorobutadiene	170 U	170 U	170 U	---	---	---	---
Hexachlorocyclopentadiene	170 U	170 U	170 U	---	---	---	---
Hexachloroethane	170 U	170 U	170 U	---	---	---	---
Indeno(1,2,3-cd)pyrene	170 U	170 U	170 U	---	---	---	---
Isophorone	170 U	170 U	170 U	---	---	---	---
N-Nitroso-di-n-propylamine	170 U	170 U	170 U	---	---	---	---
N-Nitrosodiphenylamine	170 U	170 U	170 U	---	---	---	---
Naphthalene	170 U	170 U	170 U	---	---	---	---
Nitrobenzene	170 U	170 U	170 U	---	---	---	---
Pentachlorophenol	420 U	420 U	420 U	---	---	---	---
Phenanthrene	170 U	170 U	170 U	---	---	---	---
Phenol	170 U	170 U	170 U	---	---	---	---
Pyrene	170 U	170 U	170 U	---	---	---	---
bis(2-Chloroethoxy)methane	170 U	170 U	170 U	---	---	---	---
bis(2-Chloroethyl)ether	170 U	170 U	170 U	---	---	---	---
bis(2-Ethylhexyl)phthalate	97 J	230	67 J	---	---	---	---
Total Semivolatiles	304	8487	332	27	130	100	84

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
Sample Date	11/01/99	11/02/99	11/02/99
Units	ug/kg	ug/kg	ug/kg
Compound			
1,2,4-Trichlorobenzene	---	---	---
1,2-Dichlorobenzene	---	---	---
1,3-Dichlorobenzene	---	---	---
1,4-Dichlorobenzene	---	---	---
2,2'-Oxybis(1-Chloropropane)	---	---	---
2,4,5-Trichlorophenol	---	---	---
2,4,6-Trichlorophenol	---	---	---
2,4-Dichlorophenol	---	---	---
2,4-Dinitrophenol	---	---	---
2,4-Dinitrotoluene	---	---	---
2,6-Dinitrotoluene	---	---	---
2-Chloronaphthalene	---	---	---
2-Chlorophenol	---	---	---
2-Methylnaphthalene	---	---	---
2-Methylphenol (o-cresol)	---	---	---
2-Nitroaniline	---	---	---
2-Nitrophenol	---	---	---
3,3'-Dichlorobenzidine	---	---	---
3-Methylphenol/4-Methylphenol	---	---	---
3-Nitroaniline	---	---	---
4,6-Dinitro-2-methylphenol	---	---	---
4-Bromophenylphenyl ether	---	---	---
4-Chloro-3-methylphenol	---	---	---
4-Chloroaniline	---	---	---
4-Chlorophenylphenyl ether	---	---	---
4-Nitroaniline	---	---	---
4-Nitrophenol	---	---	---
Acenaphthene	---	---	---
Acenaphthylene	---	---	---
Anthracene	---	---	---
Benzo(a)anthracene	---	---	---
Benzo(a)pyrene	---	---	---
Benzo(b)fluoranthene	---	---	---
Benzo(g,h,i)perylene	---	---	---
Benzo(k)fluoranthene	---	---	---

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-1
Solutia
Sauget Area 1
Biota
Method 8270C Semivolatile Organic Compound Data

Sample ID	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
Sample Date	11/01/99	11/02/99	11/02/99
Units	ug/kg	ug/kg	ug/kg
Compound			
Butylbenzylphthalate	---	---	---
Carbazole	---	---	---
Chrysene	---	---	---
Di-n-butylphthalate	---	---	---
Di-n-octylphthalate	---	---	---
Dibenzo(a,h)anthracene	---	---	---
Dibenzofuran	---	---	---
Diethylphthalate	---	---	---
Dimethylphthalate	---	---	---
Fluoranthene	---	---	---
Fluorene	---	---	---
Hexachlorobenzene	---	---	---
Hexachlorobutadiene	---	---	---
Hexachlorocyclopentadiene	---	---	---
Hexachloroethane	---	---	---
Indeno(1,2,3-cd)pyrene	---	---	---
Isophorone	---	---	---
N-Nitroso-di-n-propylamine	---	---	---
N-Nitrosodiphenylamine	---	---	---
Naphthalene	---	---	---
Nitrobenzene	---	---	---
Pentachlorophenol	---	---	---
Phenanthrene	---	---	---
Phenol	---	---	---
Pyrene	---	---	---
bis(2-Chloroethoxy)methane	---	---	---
bis(2-Chloroethyl)ether	---	---	---
bis(2-Ethylhexyl)phthalate	---	---	---
Total Semivolatiles	100	95	140

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

Sample ID	BB BP COMP 1	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1	CLAM BP-1 COMP 01
Sample Date	11/01/99	10/07/99	10/07/99	10/08/99	10/08/99	11/02/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Decachlorobiphenyl	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dichlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Heptachlorobiphenyl	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Hexachlorobiphenyl	52	43	20 U	20 U	20 U	20 U	20 U
Monochlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nonachlorobiphenyl	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Octachlorobiphenyl	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Pentachlorobiphenyl	52	33	20 U	20 U	20 U	20 U	20 U
Tetrachlorobiphenyl	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Trichlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PCBs	104	76	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

Sample ID	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F F BP COMP 1	F.F. BP COMP 2
Sample Date	10/07/99	10/06/99	10/08/99	10/08/99	10/09/99	10/04/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Decachlorobiphenyl	100 U	50 U	50 U	50 U	50 U	50 U	100 U
Dichlorobiphenyl	20 U	10 U	10 U	10 U	10 U	10 U	20 U
Heptachlorobiphenyl	60 U	30 U	30 U	30 U	30 U	30 U	60 U
Hexachlorobiphenyl	40 U	20 U	20 U	20 U	20 U	22	19 J
Monochlorobiphenyl	20 U	10 U	10 U	10 U	10 U	10 U	20 U
Nonachlorobiphenyl	100 U	50 U	50 U	50 U	50 U	50 U	100 U
Octachlorobiphenyl	60 U	30 U	30 U	30 U	30 U	30 U	60 U
Pentachlorobiphenyl	40 U	20 U	20 U	20 U	20 U	8.7 J	40 U
Tetrachlorobiphenyl	40 U	20 U	20 U	20 U	20 U	20 U	40 U
Trichlorobiphenyl	20 U	10 U	10 U	10 U	10 U	10 U	20 U
Total PCBs	ND	ND	ND	ND	ND	30.7	19

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

Sample ID	F.F BP COMP 3	F.F CS B COMP 1	F F CS-D COMP 1	F.F. REF 1 COMP 1	F.F. REF 2 COMP 1	F.F. REF 2 COMP 2	FF REF 2 COMP 3
Sample Date	10/06/99	10/05/99	10/04/99	10/08/99	10/08/99	10/08/99	10/08/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Decachlorobiphenyl	100 U	100 U	50 U	50 U	100 U	100 U	100 U
Dichlorobiphenyl	20 U	20 U	10 U	10 U	20 U	20 U	20 U
Heptachlorobiphenyl	60 U	460	44	30 U	60 U	60 U	60 U
Hexachlorobiphenyl	40 U	1000	380	20 U	40 U	40 U	40 U
Monochlorobiphenyl	20 U	20 U	10 U	10 U	20 U	20 U	20 U
Nonachlorobiphenyl	100 U	100 U	50 U	50 U	100 U	100 U	100 U
Octachlorobiphenyl	60 U	130	30 U	30 U	60 U	60 U	60 U
Pentachlorobiphenyl	40 U	2100	510	20 U	40 U	40 U	40 U
Tetrachlorobiphenyl	40 U	3200	240	20 U	40 U	40 U	40 U
Trichlorobiphenyl	20 U	600	13	10 U	20 U	20 U	20 U
Total PCBs	ND	7490	1187	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Decachlorobiphenyl		---	---	---	---	---	---	---
Dichlorobiphenyl		---	---	---	---	---	---	---
Heptachlorobiphenyl		---	---	---	---	---	---	---
Hexachlorobiphenyl		---	---	---	---	---	---	---
Monochlorobiphenyl		---	---	---	---	---	---	---
Nonachlorobiphenyl		---	---	---	---	---	---	---
Octachlorobiphenyl		---	---	---	---	---	---	---
Pentachlorobiphenyl		---	---	---	---	---	---	---
Tetrachlorobiphenyl		---	---	---	---	---	---	---
Trichlorobiphenyl		---	---	---	---	---	---	---
Total PCBs		292	74	320	ND	18.8	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

Sample ID	PTISS B-1 DC B	PTISS B-2 DC B	PTISS B-3 DC B	PTISS C-1 DC C	PTISS C-2 DC C	PTISS C-3 DC C	PTISS D-1 DC D
Sample Date	10/05/99	10/05/99	10/05/99	10/04/99	10/04/99	10/04/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Decachlorobiphenyl	50 U	50 U	50 U	20 J	35 J	50 U	100 U
Dichlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	20 U
Heptachlorobiphenyl	30 U	30 U	30 U	30 U	30 U	30 U	60 U
Hexachlorobiphenyl	20 U	20 U	20 U	26	34	20 U	40 U
Monochlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	20 U
Nonachlorobiphenyl	50 U	50 U	50 U	50 U	50 U	50 U	100 U
Octachlorobiphenyl	30 U	30 U	30 U	30 U	30 U	30 U	60 U
Pentachlorobiphenyl	20 U	20 U	20 U	34	54	20 U	40 U
Tetrachlorobiphenyl	20 U	20 U	20 U	20 U	20 U	20 U	40 U
Trichlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	20 U
Total PCBs	ND	ND	ND	80	123	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

Sample ID	PTISS D-2 DC D	PTISS D-3 DC D	PTISS E-1 DC E	PTISS E-2 DC E	PTISS F-1 DC F	PTISS F-3 DC F	PTISS PRAIRIE DUPONT R2
Sample Date	10/04/99	10/04/99	10/06/99	10/06/99	10/07/99	10/07/99	10/08/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Decachlorobiphenyl	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dichlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Heptachlorobiphenyl	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Hexachlorobiphenyl	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Monochlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nonachlorobiphenyl	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Octachlorobiphenyl	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Pentachlorobiphenyl	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Tetrachlorobiphenyl	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Trichlorobiphenyl	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PCBs	ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

Sample ID	PTISS REF 2-1 RC	SHRIMP BP COMP	SHRIMP REF1 COMP	SHRIMP REF2 COMP	SN REF1 COMP 1	SN REF2-1 COMP1	SNCS-B COMP1
Sample Date	10/08/99	10/06/99	10/07/99	10/08/99	10/08/99	10/08/99	10/05/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
Decachlorobiphenyl	50 U	100 U	100 U	100 U	100 U	50 U	50 U
Dichlorobiphenyl	10 U	20 U	20 U	20 U	20 U	10 U	10 U
Heptachlorobiphenyl	30 U	60 U	60 U	60 U	60 U	30 U	30 U
Hexachlorobiphenyl	20 U	40 U	40 U	40 U	40 U	20 U	79
Monochlorobiphenyl	10 U	20 U	20 U	20 U	20 U	10 U	10 U
Nonachlorobiphenyl	50 U	100 U	100 U	100 U	100 U	50 U	50 U
Octachlorobiphenyl	30 U	60 U	60 U	60 U	60 U	30 U	30 U
Pentachlorobiphenyl	20 U	40 U	22 J	40 U	40 U	20 U	170
Tetrachlorobiphenyl	20 U	40 U	40 U	40 U	40 U	20 U	200
Trichlorobiphenyl	10 U	20 U	20 U	20 U	20 U	10 U	22
Total PCBs	ND	ND	22	ND	ND	ND	471

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SNCS-C COMP1	SNCS-D COMP1	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2
	Sample Date	10/04/99	10/04/99	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Decachlorobiphenyl		50 U	50 U	---	---	---	---	---
Dichlorobiphenyl		10 U	10 U	---	---	---	---	---
Heptachlorobiphenyl		30 U	30 U	---	---	---	---	---
Hexachlorobiphenyl		110	26	---	---	---	---	---
Monochlorobiphenyl		10 U	10 U	---	---	---	---	---
Nonachlorobiphenyl		50 U	50 U	---	---	---	---	---
Octachlorobiphenyl		30 U	30 U	---	---	---	---	---
Pentachlorobiphenyl		250	51	---	---	---	---	---
Tetrachlorobiphenyl		76	20 U	---	---	---	---	---
Trichlorobiphenyl		10 U	10 U	---	---	---	---	---
Total PCBs		436	77	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-2
Solutia
Sauget Area 1
Biota
Method 680 Polychlorinated Biphenyl Data

	Sample ID	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	11/02/99	11/02/99
	Units	ug/kg	ug/kg
Compound			
Decachlorobiphenyl		---	---
Dichlorobiphenyl		---	---
Heptachlorobiphenyl		---	---
Hexachlorobiphenyl		---	---
Monochlorobiphenyl		---	---
Nonachlorobiphenyl		---	---
Octachlorobiphenyl		---	---
Pentachlorobiphenyl		---	---
Tetrachlorobiphenyl		---	---
Trichlorobiphenyl		---	---
Total PCBs		ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Compound	Sample ID	BB BP COMP 1	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1	CLAM BP-1 COMP 01
	Sample Date	11/01/99	10/07/99	10/07/99	10/08/99	10/08/99	11/02/99	10/06/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
4,4'-DDD		13 U	13 U	26 U	1.2 J	1.8 J	26 U	5.3 U
4,4'-DDE		21	29	3.4 J	12 J	9.8 J	4.7 J	5.3 U
4,4'-DDT		13 U	13 U	26 U	13 U	13 U	26 U	5.3 U
Aldrin		6.8 U	6.8 U	14 U	6.8 U	6.8 U	14 U	2.7 U
Alpha Chlordane		6.8 U	12	14 U	1.1 J	1.1 J	2.5 J	2.7 U
Dieldrin		13 U	13 U	26 U	2.8 J	1.7 J	3.8 J	5.3 U
Endosulfan I		6.8 U	6.8 U	14 U	6.8 U	6.8 U	14 U	2.7 U
Endosulfan II		13 U	13 U	26 U	13 U	13 U	14 U	5.3 U
Endosulfan sulfate		13 U	13 U	26 U	13 U	13 U	26 U	5.3 U
Endrin		13 U	13 U	26 U	2.6 J	13 U	26 U	5.3 U
Endrin aldehyde		13 U	13 U	26 U	13 U	13 U	26 U	5.3 U
Endrin ketone		13 U	13 U	26 U	13 U	6.8 U	26 U	5.3 U
Gamma Chlordane		11	6.8 U	14 U	6.2 J	6.1 J	14 U	2.7 U
Heptachlor		6.8 U	6.8 U	2.8 J	6.8 U	6.8 U	14 U	2.7 U
Heptachlor epoxide		6.8 U	6.8 U	14 U	6.8 U	6.8 U	14 U	2.7 U
Methoxychlor		68 U	68 U	140 U	68 U	68 U	140 U	27 U
Toxaphene		680 U	680 U	720 U	680 U	680 U	720 U	140 U
alpha-BHC		6.8 U	6.8 U	14 U	6.8 U	6.8 U	14 U	2.7 U
beta-BHC		6.8 U	6.8 U	14 U	6.8 U	6.8 U	14 U	2.7 U
delta-BHC		6.8 U	6.8 U	14 U	6.8 U	6.8 U	14 U	2.7 U
gamma-BHC (Lindane)		6.8 U	6.8 U	14 U	0.94 J	1.2 J	14 U	2.7 U
Total Pesticides		32	41	6.2	26.84	21.7	11	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Sample ID	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F.F. BP COMP 1	F.F. BP COMP 2
Sample Date	10/07/99	10/06/99	10/08/99	10/08/99	10/09/99	10/04/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
4,4'-DDD	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
4,4'-DDE	40 U	26 U	26 U	26 U	5.3 U	4.1 J	9.1 J
4,4'-DDT	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
Aldrin	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
Alpha Chlordane	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
Dieldrin	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
Endosulfan I	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
Endosulfan II	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
Endosulfan sulfate	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
Endrin	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
Endrin aldehyde	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
Endrin ketone	40 U	26 U	26 U	26 U	5.3 U	13 U	20 U
Gamma Chlordane	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
Heptachlor	2.3 J	14 U	14 U	14 U	2.7 U	6.8 U	10 U
Heptachlor epoxide	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
Methoxychlor	5.4 J	140 U	140 U	140 U	27 U	68 U	100 U
Toxaphene	1100 U	720 U	720 U	720 U	140 U	680 U	1000 U
alpha-BHC	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
beta-BHC	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
delta-BHC	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
gamma-BHC (Lindane)	20 U	14 U	14 U	14 U	2.7 U	6.8 U	10 U
Total Pesticides	7.7	ND	ND	ND	ND	4.1	9.1

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

Date Printed (15:00:07
DBF File: D:\25 .MPDATA.DBF
FXP File: D:\2550 ABLEPRS.FXP

Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Sample ID	F.F. BP COMP 3	F.F. CS-D COMP 1	F.F. REF 1 COMP 1	F.F. REF 2 COMP 1	F.F. REF 2 COMP 2	LMB BP COMP 1	LMB BP COMP 2
Sample Date	10/06/99	10/04/99	10/08/99	10/08/99	10/08/99	10/04/99	11/03/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
4,4'-DDD	20 U	13 U	13 U	20 U	20 U	---	---
4,4'-DDE	10 J	13 U	3.5 J	20 U	1.3 J	---	---
4,4'-DDT	20 U	13 U	13 U	20 U	20 U	---	---
Aldrin	10 U	6.8 U	6.8 U	10 U	10 U	---	---
Alpha Chlordane	10 U	6.8 U	6.8 U	10 U	10 U	---	---
Dieldrin	20 U	13 U	4.7 J	20 U	1.6 J	---	---
Endosulfan I	10 U	6.8 U	6.8 U	10 U	10 U	---	---
Endosulfan II	20 U	13 U	13 U	20 U	20 U	---	---
Endosulfan sulfate	20 U	13 U	13 U	20 U	20 U	---	---
Endrin	20 U	13 U	13 U	20 U	20 U	---	---
Endrin aldehyde	20 U	13 U	13 U	20 U	20 U	---	---
Endrin ketone	20 U	13 U	13 U	20 U	20 U	---	---
Gamma Chlordane	10 U	6.8 U	6.8 U	10 U	1.2 J	---	---
Heptachlor	10 U	6.8 U	6.8 U	10 U	10 U	---	---
Heptachlor epoxide	10 U	6.8 U	6.8 U	10 U	10 U	---	---
Methoxychlor	100 U	68 U	68 U	100 U	100 U	---	---
Toxaphene	1000 U	680 U	680 U	1000 U	1000 U	---	---
alpha-BHC	10 U	6.8 U	6.8 U	10 U	10 U	---	---
beta-BHC	10 U	6.8 U	6.8 U	10 U	10 U	---	---
delta-BHC	10 U	6.8 U	6.8 U	10 U	10 U	---	---
gamma-BHC (Lindane)	10 U	6.8 U	6.8 U	10 U	10 U	---	---
Total Pesticides	10	ND	8.2	ND	4.1	20.5	15

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Sample ID	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2	PTISS B-1 DC B	PTISS B-2 DC B
Sample Date	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99	10/05/99	10/05/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
4,4'-DDD	---	---	---	---	---	26 U	26 U
4,4'-DDE	---	---	---	---	---	1.7 J	1.2 J
4,4'-DDT	---	---	---	---	---	26 U	26 U
Aldrin	---	---	---	---	---	5.4 J	2.8 J
Alpha Chlordane	---	---	---	---	---	14 U	14 U
Dieldrin	---	---	---	---	---	26 U	26 U
Endosulfan I	---	---	---	---	---	14 U	14 U
Endosulfan II	---	---	---	---	---	26 U	26 U
Endosulfan sulfate	---	---	---	---	---	26 U	26 U
Endrin	---	---	---	---	---	26 U	26 U
Endrin aldehyde	---	---	---	---	---	26 U	26 U
Endrin ketone	---	---	---	---	---	26 U	26 U
Gamma Chlordane	---	---	---	---	---	3.6 J	2.1 J
Heptachlor	---	---	---	---	---	14 U	14 U
Heptachlor epoxide	---	---	---	---	---	7.7 J	2.5 J
Methoxychlor	---	---	---	---	---	140 U	140 U
Toxaphene	---	---	---	---	---	720 U	720 U
alpha-BHC	---	---	---	---	---	14 U	14 U
beta-BHC	---	---	---	---	---	14 U	14 U
delta-BHC	---	---	---	---	---	14 U	14 U
gamma-BHC (Lindane)	---	---	---	---	---	14 U	14 U
Total Pesticides	36	5.2	3.5	11.5	11.9	18.4	8.6

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Sample ID	PTISS B-3 DC B	PTISS C-1 DC C	PTISS C-2 DC C	PTISS C-3 DC C	PTISS D-1 DC D	PTISS D-2 DC D	PTISS D-3 DC D
Sample Date	10/05/99	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
4,4'-DDD	26 U	26 U	26 U	26 U	40 U	26 U	26 U
4,4'-DDE	2.1 J	8.2 J	20 J	26 U	40 U	26 U	26 U
4,4'-DDT	26 U	2.9 J	11 J	26 U	40 U	26 U	26 U
Aldrin	3 J	4.8 J	12 J	14 U	20 U	14 U	14 U
Alpha Chlordane	14 U	14 U	14 U	14 U	20 U	14 U	14 U
Dieldrin	26 U	26 U	26 U	26 U	40 U	26 U	26 U
Endosulfan I	14 U	14 U	14 U	14 U	20 U	14 U	14 U
Endosulfan II	26 U	26 U	26 U	26 U	40 U	26 U	26 U
Endosulfan sulfate	26 U	26 U	26 U	26 U	40 U	26 U	26 U
Endrin	26 U	26 U	26 U	26 U	40 U	26 U	26 U
Endrin aldehyde	26 U	6.5 J	16 J	26 U	40 U	26 U	26 U
Endrin ketone	26 U	26 U	26 U	26 U	40 U	26 U	26 U
Gamma Chlordane	2.8 J	3.9 J	10 J	14 U	20 U	14 U	14 U
Heptachlor	14 U	14 U	14 U	14 U	20 U	14 U	14 U
Heptachlor epoxide	4.4 J	6.8 J	15	14 U	20 U	14 U	14 U
Methoxychlor	140 U	140 U	26 J	140 U	200 U	140 U	140 U
Toxaphene	720 U	720 U	720 U	720 U	1100 U	720 U	720 U
alpha-BHC	14 U	14 U	14 U	14 U	20 U	14 U	14 U
beta-BHC	14 U	14 U	14 U	14 U	20 U	14 U	14 U
delta-BHC	14 U	14 U	14 U	14 U	20 U	14 U	14 U
gamma-BHC (Lindane)	14 U	14 U	14 U	14 U	20 U	14 U	14 U
Total Pesticides	12.3	33.1	110	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Sample ID	PTISS E-1 DC E	PTISS E-2 DC E	PTISS F-1 DC F	PTISS F-3 DC F	PTISS PRAIRIE DUPONT R2	PTISS REF 2-1 RC	SHRIMP BP COMP
Sample Date	10/06/99	10/06/99	10/07/99	10/07/99	10/08/99	10/08/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
4,4'-DDD	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
4,4'-DDE	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
4,4'-DDT	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
Aldrin	14 U	1 J	14 U	0.81 J	14 U	1 J	2.0 U
Alpha Chlordane	14 U	14 U	14 U	14 U	14 U	14 U	2.0 U
Dieldrin	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
Endosulfan I	14 U	14 U	14 U	14 U	14 U	14 U	2.0 U
Endosulfan II	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
Endosulfan sulfate	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
Endrin	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
Endrin aldehyde	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
Endrin ketone	26 U	26 U	26 U	26 U	26 U	26 U	4.0 U
Gamma Chlordane	14 U	14 U	3.1 J	14 U	14 U	14 U	2.0 U
Heptachlor	14 U	2.9 J	1.8 J	1.9 J	14 U	3.8 J	2.0 U
Heptachlor epoxide	14 U	14 U	14 U	14 U	14 U	14 U	2.0 U
Methoxychlor	140 U	140 U	140 U	140 U	140 U	140 U	20 U
Toxaphene	720 U	720 U	720 U	720 U	720 U	720 U	110 U
alpha-BHC	14 U	14 U	14 U	14 U	14 U	14 U	2.0 U
beta-BHC	14 U	14 U	14 U	14 U	14 U	14 U	2.0 U
delta-BHC	14 U	14 U	14 U	14 U	14 U	14 U	2.0 U
gamma-BHC (Lindane)	14 U	14 U	14 U	14 U	14 U	14 U	2.0 U
Total Pesticides	ND	3.9	4.9	2.71	ND	4.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Sample ID	SHRIMP REF1 COMP	SHRIMP REF2 COMP	SN REF1 COMP 1	SN REF2-1 COMP1	SNCS-B COMP1	SNCS-C COMP1	SNCS-D COMP1
Sample Date	10/07/99	10/08/99	10/08/99	10/08/99	10/05/99	10/04/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
4,4'-DDD	4.0 U	4.0 U	7.9 U	5.3 U	26 U	26 U	26 U
4,4'-DDE	4.0 U	4.0 U	7.9 U	5.3 U	30	29	26 U
4,4'-DDT	4.0 U	4.0 U	7.9 U	5.3 U	26 U	26 U	26 U
Aldrin	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
Alpha Chlordane	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
Dieldrin	4.0 U	4.0 U	7.9 U	5.3 U	26 U	26 U	26 U
Endosulfan I	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
Endosulfan II	4.0 U	4.0 U	7.9 U	5.3 U	26 U	26 U	26 U
Endosulfan sulfate	4.0 U	4.0 U	3.7 J	5.3 U	26 U	26 U	26 U
Endrin	4.0 U	4.0 U	7.9 U	5.3 U	26 U	26 U	26 U
Endrin aldehyde	4.0 U	4.0 U	7.9 U	5.3 U	26 U	26 U	26 U
Endrin ketone	4.0 U	4.0 U	7.9 U	5.3 U	26 U	7.1 J	26 U
Gamma Chlordane	2.0 U	2.0 U	4.1 U	2.7 U	41	22	9.5 J
Heptachlor	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
Heptachlor epoxide	2.0 U	2.0 U	4.1 U	2.7 U	66	24	14 U
Methoxychlor	20 U	20 U	41 U	27 U	140 U	140 U	140 U
Toxaphene	110 U	110 U	220 U	140 U	720 U	720 U	720 U
alpha-BHC	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
beta-BHC	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
delta-BHC	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
gamma-BHC (Lindane)	2.0 U	2.0 U	4.1 U	2.7 U	14 U	14 U	14 U
Total Pesticides	ND	ND	3.7	ND	137	82.1	9.5

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

Compound	Sample ID	SRM (NIST 1974)	WB BP FILLET 2	WC BP COMP 1	WC BP COMP 2	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1
	Sample Date	01/26/00	10/04/99	10/04/99	11/01/99	10/04/99	11/01/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
4,4'-DDD		39	---	---	---	---	---	---
4,4'-DDE		17	---	---	---	---	---	---
4,4'-DDT		4.2 J	---	---	---	---	---	---
Aldrin		6.2 U	---	---	---	---	---	---
Alpha Chlordane		6.2 U	---	---	---	---	---	---
Dieldrin		12 U	---	---	---	---	---	---
Endosulfan I		6.2 U	---	---	---	---	---	---
Endosulfan II		12 U	---	---	---	---	---	---
Endosulfan sulfate		12 U	---	---	---	---	---	---
Endrin		12 U	---	---	---	---	---	---
Endrin aldehyde		12 U	---	---	---	---	---	---
Endrin ketone		12 U	---	---	---	---	---	---
Gamma Chlordane		6.2 U	---	---	---	---	---	---
Heptachlor		6.2 U	---	---	---	---	---	---
Heptachlor epoxide		15	---	---	---	---	---	---
Methoxychlor		62 U	---	---	---	---	---	---
Toxaphene		330 U	---	---	---	---	---	---
alpha-BHC		6.2 U	---	---	---	---	---	---
beta-BHC		6.2 U	---	---	---	---	---	---
delta-BHC		2.6 J	---	---	---	---	---	---
gamma-BHC (Lindane)		5.2 J	---	---	---	---	---	---
Total Pesticides		303.2	13.9	ND	ND	2.5	1.9	1.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-3
Solutia
Sauget Area 1
Biota
Method 8081A Pesticide Data

	Sample ID	WC REF2 COMP 2
	Sample Date	11/02/99
	Units	ug/kg
Compound		
4,4'-DDD		---
4,4'-DDE		---
4,4'-DDT		---
Aldrin		---
Alpha Chlordane		---
Dieldrin		---
Endosulfan I		---
Endosulfan II		---
Endosulfan sulfate		---
Endrin		---
Endrin aldehyde		---
Endrin ketone		---
Gamma Chlordane		---
Heptachlor		---
Heptachlor epoxide		---
Methoxychlor		---
Toxaphene		---
alpha-BHC		---
beta-BHC		---
delta-BHC		---
gamma-BHC (Lindane)		---
Total Pesticides		ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Sample ID	BB BP COMP 1	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1	CLAM BP-1 COMP 01
Sample Date	11/01/99	10/07/99	10/07/99	10/08/99	10/08/99	11/02/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
2,4,5-T	10 U	10 U	10 U	20 U	10 U	10 U	100 U
2,4,5-TP (Silvex)	10 U	10 U	10 U	20 U	10 U	10 U	100 U
2,4-D	10 U	10 U	10 U	20 U	10 U	10 U	100 U
2,4-DB	10 U	10 U	10 U	20 U	10 U	10 U	100 U
Dalapon	2000 U	2000 U	2000 U	4000 U	2000 U	2000 U	20000 U
Dicamba	10 U	20 U	20 U	40 U	20 U	20 U	200 U
Dichloroprop	100 U	100 U	6.6 J	200 U	100 U	100 U	32 J
Dinoseb	100 U	100 U	100 U	200 U	100 U	100 U	1000 U
MCPA	2000 U	2000 U	2000 U	8600	2000 U	2000 U	20000 U
MCPP	2000 U	2000 U	2000 U	4000 U	2000 U	2000 U	20000 U
Pentachlorophenol	20 U	20 U	20 U	40 U	20 U	20 U	200 U
Total Herbicides	ND	ND	6.6	8600	ND	ND	32

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Sample ID	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F.F BP COMP 1	F F. BP COMP 2
Sample Date	10/07/99	10/06/99	10/08/99	10/08/99	10/09/99	10/04/99	10/06/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
2,4,5-T	10 U	20 U	10 U	10 U	100 U	10 U	10 U
2,4,5-TP (Silvex)	10 U	20 U	10 U	10 U	100 U	10 U	10 U
2,4-D	10 U	20 U	10 U	10 U	100 U	10 U	10 U
2,4-DB	10 U	20 U	10 U	10 U	100 U	10	6.5
Dalapon	2000 U	4000 U	2000 U	2000 U	20000 U	2000 U	2000 U
Dicamba	10 U	40 U	20 U	20 U	200 U	2.6 J	20 U
Dichloroprop	20 J	3.2 J	6.5 J	10 J	87 J	6.7 J	100 U
Dinoseb	100 U	200 U	100 U	100 U	1000 U	100 U	100 U
MCPA	2000 U	4000 U	2000 U	1400	40000 U	3100	3300
MCPP	2000 U	4000	2000 U	2000 U	40000 U	2000 U	2000 U
Pentachlorophenol	20 U	40 U	20 U	20 U	200 U	2.2 J	1 J
Total Herbicides	20	4003.2	6.5	1410	87	3121.5	3307.5

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Sample ID	F.F. BP COMP 3	F.F. CS-D COMP 1	F.F. REF 1 COMP 1	F.F. REF 2 COMP 1	F F REF 2 COMP 2	FF REF 2 COMP 3	LMB BP COMP 1
Sample Date	10/06/99	10/04/99	10/08/99	10/08/99	10/08/99	10/08/99	10/04/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
2,4,5-T	20 U	10 U	10 U	10 U	10 U	10 U	---
2,4,5-TP (Silvex)	20 U	10 U	10 U	10 U	10 U	10 U	---
2,4-D	20 U	10 U	10 U	10 U	10 U	10 U	---
2,4-DB	20 U	10 U	10	10 U	10 U	10 U	---
Dalapon	4000 U	2000 U	2000 U	2000 U	2000 U	2000 U	---
Dicamba	40 U	20 U	20 U	20 U	20 U	20 U	---
Dichloroprop	200 U	100 U	5.1 J	100 U	100 U	100 U	---
Dinoseb	200 U	100 U	100 U	100 U	100 U	100 U	---
MCPA	4000 U	2000 U	2400	2000 U	2000 U	2000 U	---
MCPP	4000 U	2000 U	2000 U	2000 U	2000 U	2000 U	---
Pentachlorophenol	40 U	5.8 J	2.2 J	6.8 U	1.5 J	20 U	---
Total Herbicides	ND	5.8	2417.3	ND	1.5	ND	1.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Sample ID	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2	PTISS B-1 DC B
Sample Date	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99	10/05/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
2,4,5-T	---	---	---	---	---	---	1.1 J
2,4,5-TP (Silvex)	---	---	---	---	---	---	10 U
2,4-D	---	---	---	---	---	---	10 U
2,4-DB	---	---	---	---	---	---	10 U
Dalapon	---	---	---	---	---	---	2000 U
Dicamba	---	---	---	---	---	---	4.3 J
Dichloroprop	---	---	---	---	---	---	100 U
Dinoseb	---	---	---	---	---	---	100 U
MCPA	---	---	---	---	---	---	2000 U
MCPP	---	---	---	---	---	---	1100
Pentachlorophenol	---	---	---	---	---	---	1.6 J
Total Herbicides	ND	1800	ND	ND	ND	ND	1107

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Compound	Sample ID	PTISS B-2 DC B	PTISS B-3 DC B	PTISS C-1 DC C	PTISS C-2 DC C	PTISS C-3 DC C	PTISS D-1 DC D	PTISS D-2 DC D
	Sample Date	10/05/99	10/05/99	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4,5-T		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-TP (Silvex)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-D		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-DB		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dalapon		2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Dicamba		20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dichloroprop		100 U	100 U	100 U	100 U	100 U	100 U	100 U
Dinoseb		100 U	100 U	100 U	100 U	100 U	100 U	100 U
MCPA		2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
MCPP		2000 U	2000 U	1300	1800	2000 U	680 J	2000 U
Pentachlorophenol		2.8 J	4.9 J	9.7	16	2.7 J	1.2 J	20 U
Total Herbicides		2.8	4.9	1309.7	1816	2.7	681.2	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Compound	Sample ID	PTISS D-3 DC D	PTISS E-1 DC E	PTISS E-2 DC E	PTISS F-1 DC F	PTISS F-3 DC F	PTISS PRAIRIE DUPONT R2	PTISS REF 2-1 RC
	Sample Date	10/04/99	10/06/99	10/06/99	10/07/99	10/07/99	10/08/99	10/08/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4,5-T		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-TP (Silvex)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-D		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-DB		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dalapon		2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Dicamba		20 U	20 U	20 U	20 U	20 U	20 U	1.8 J
Dichloroprop		100 U	100 U	100 U	7 J	100 U	100 U	100 U
Dinoseb		100 U	100 U	100 U	100 U	100 U	100 U	100 U
MCPA		2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
MCPP		400 J	2000 U	2000 U	2000 U	2000 U	2000 U	1300
Pentachlorophenol		20 U	20 U	20 U	20 U	20 U	20 U	2 J
Total Herbicides		400	ND	ND	7	ND	ND	1303.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Compound	Sample ID	SHRIMP BP COMP	SHRIMP REF1 COMP	SHRIMP REF2 COMP	SN REF1 COMP 1	SN REF2-1 COMP1	SNCS-B COMP1	SNCS-C COMP1
	Sample Date	10/06/99	10/07/99	10/08/99	10/08/99	10/08/99	10/05/99	10/04/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4,5-T		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-TP (Silvex)		10 U	10 U	1.3 J	6.3 J	10 U	10 U	10 U
2,4-D		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-DB		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dalapon		2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Dicamba		20 U	20 U	20 U	20 U	8.4	20 U	20 U
Dichloroprop		100 U	100 U	100 U	100 U	100 U	100 U	100 U
Dinoseb		100 U	100 U	100 U	100 U	100 U	2000 U	100 U
MCPA		2000 U	2000 U	2000 U	6400	2000 U	2000 U	2000 U
MCPP		2000 U	2000 U	4400	2600	2000 U	3300	2000 U
Pentachlorophenol		1.8 J	3.9 J	1.5 J	15	20 U	1.1 J	5.8 J
Total Herbicides		1.8	3.9	4402.8	9021.3	8.4	3301.1	5.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

Sample ID	SNCS-D COMP1	WB BP FILLET 1	WB BP FILLET 2	WC BP COMP 1	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1
Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	11/01/99	11/02/99
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
2,4,5-T	10 U	---	---	---	---	---	---
2,4,5-TP (Silvex)	10 U	---	---	---	---	---	---
2,4-D	10 U	---	---	---	---	---	---
2,4-DB	10 U	---	---	---	---	---	---
Dalapon	2000 U	---	---	---	---	---	---
Dicamba	20 U	---	---	---	---	---	---
Dichloroprop	100 U	---	---	---	---	---	---
Dinoseb	100 U	---	---	---	---	---	---
MCPA	2000 U	---	---	---	---	---	---
MCPP	2000 U	---	---	---	---	---	---
Pentachlorophenol	20 U	---	---	---	---	---	---
Total Herbicides	ND	ND	ND	ND	ND	ND	3.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 11-4
Solutia
Sauget Area 1
Biota
Method 8151A Herbicide Data

	Sample ID	WC REF2 COMP 2
	Sample Date	11/02/99
	Units	ug/kg
Compound		
2,4,5-T		---
2,4,5-TP (Silvex)		---
2,4-D		---
2,4-DB		---
Dalapon		---
Dicamba		---
Dichloroprop		---
Dinoseb		---
MCPA		---
MCPP		---
Pentachlorophenol		---
Total Herbicides		ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-5
Solutia
Sauget Area 1
Biota
Method 6010B/7471A/9010B Inorganic Data

Compound	Sample ID	BB BP COMP 1	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1	CLAM BP-1 COMP 01
	Sample Date	11/01/99	10/07/99	10/07/99	10/08/99	10/08/99	11/02/99	10/06/99
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum		12	7.7 J	18	66	31	5.9 J	7.5 J
Antimony		0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U
Arsenic		1.8 U	5 U	1.8 U	1.8 U	4.5 U	0.91 U	4.5 U
Beryllium		0.91 U	0.91 U	1 U	0.91 U	0.91 U	0.91 U	0.91 U
Cadmium		0.45 U	0.45 U	0.5 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium		0.29 J	0.27 J	0.7	0.4 J	0.48	0.34 J	0.22 J
Copper		0.79 J	0.85 J	0.89 J	1 J	1.1 J	1.1 J	0.60 J
Cyanide, Total		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead		0.25 J	0.45 U	0.5 U	0.23 J	0.18 J	0.45 U	0.45 U
Mercury		0.05 J	0.075 J	0.26	0.1	0.086 J	0.05 J	0.074 U
Nickel		9.1 U	9.1 U	10 U	9.1 U	9.1 U	9.1 U	9.1 U
Selenium		0.45 U	0.45 U	0.5 U	0.45 U	0.5	0.48	0.45 U
Silver		0.091 U	0.1 U	0.1 U	0.091 U	0.091 U	0.091 U	0.015 J
Zinc		19	22	18	20	24	16	8.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-5
Solutia
Sauget Area 1
Biota
Method 6010B/7471A/9010B Inorganic Data

Sample ID	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F F. BP COMP 1	F.F. BP COMP 2
Sample Date	10/07/99	10/06/99	10/08/99	10/08/99	10/09/99	10/04/99	10/06/99
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound							
Aluminum	11	13	14	15	26	24	52
Antimony	0.18 U	0.18 U	0.18 U	0.18 U	0.20 U	0.18 U	0.2 U
Arsenic	4.5 U	0.96 J	4.2 U	0.65 J	5.0 U	5 U	1 U
Beryllium	0.91 U	0.91 U	0.91 U	0.91 U	1.0 U	0.91 U	1 U
Cadmium	0.074 J	0.12 J	0.53	0.16 J	0.61	0.45 U	0.5 U
Chromium	0.72	1.1	0.79	1.5	2.2	0.32 J	0.3 J
Copper	0.98 J	0.99 J	2.4	1.6 J	2.4	0.5 J	0.78 J
Cyanide, Total	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead	0.45 U	0.25 J	0.44 J	0.45 U	0.59	0.45 U	0.5 U
Mercury	0.091 U	0.10 U	0.095 U	0.074 U	0.077 U	0.052 J	0.6
Nickel	9.1 U	9.1 U	9.1 U	9.1 U	10 U	9.1 U	10 U
Selenium	0.45 U	0.45 U	0.45 U	0.45 U	0.48 J	0.54	0.5 U
Silver	0.091 U	0.091 U	0.091 U	0.091 U	0.10 U	0.1 U	0.1 U
Zinc	14	22	52	21	35	24	33

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-5
Solutia
Sauget Area 1
Biota
Method 6010B/7471A/9010B Inorganic Data

Compound	Sample ID	F F BP COMP 3	F.F. CS B COMP 1	F F CS-D COMP 1	F.F. REF 1 COMP 1	F.F. REF 2 COMP 1	F.F. REF 2 COMP 2	FF REF 2 COMP 3
	Sample Date	10/06/99	10/05/99	10/04/99	10/08/99	10/08/99	10/08/99	10/08/99
	Units	mg/kg	mg/kg dw	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum		44	9.8 J	22	13	80	100	8.3 J
Antimony		0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.2 U
Arsenic		2 U	5 U	5 U	1.8 U	2 U	2 U	5 U
Beryllium		0.91 U	1 U	0.91 U	0.91 U	0.91 U	0.91 U	1 U
Cadmium		0.45 U	0.5 U	0.45 U	0.45 U	0.45 U	0.45 U	0.5 U
Chromium		0.26 J	0.4 J	0.37 J	0.24 J	0.44 J	0.47	1.7
Copper		1.7 J	9	1.5 J	0.45 J	0.42 J	0.75 J	0.54 J
Cyanide, Total		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead		0.59	1.1	0.48	0.45 U	0.45 U	0.37 J	0.5 U
Mercury		0.1 U	0.095 U	0.018 J	0.05 J	0.051 J	0.064 J	0.046 J
Nickel		9.1 U	10 U	9.1 U	9.1 U	9.1 U	9.1 U	10 U
Selenium		0.53	0.5 U	0.46	0.45 U	0.56	0.65	0.5 U
Silver		0.1 U	0.1 U	0.1 U	0.091 U	0.1 U	0.1 U	0.1 U
Zinc		32	46	53	17	33	27	25

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-5
Solutia
Sauget Area 1
Biota
Method 6010B/7471A/9010B Inorganic Data

Sample ID	PTISS B-1 DC B	PTISS B-2 DC B	PTISS B-3 DC B	PTISS C-1 DC C	PTISS C-2 DC C	PTISS C-3 DC C	PTISS D-1 DC D
Sample Date	10/05/99	10/05/99	10/05/99	10/04/99	10/04/99	10/04/99	10/04/99
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound							
Aluminum	43	23	170	1400	1400	38	120
Antimony	0.21	0.15 J	0.2 U	0.71	1.2	0.2 U	0.2 U
Arsenic	0.25 J	0.91 U	0.91 U	2.4	4.3	0.43 J	0.32 J
Beryllium	0.91 U	0.91 U	1 U	1 U	0.14 J	0.91 U	1 U
Cadmium	1.2	0.72	0.39 J	3.5	5.3	0.06 J	0.29 J
Chromium	0.26 J	0.17 J	2.6	7.1	9	0.19 J	0.59
Copper	63	30	35	250	390	8.1	10
Cyanide, Total	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead	6	3.9	3.8	47	76	2.4	4.4
Mercury	0.0031 J	0.0082 J	0.011 J	0.011 J	0.028	0.02 U	0.018 U
Nickel	1.7 J	1.6 J	6.3 J	80	110	2.7 J	3.5 J
Selenium	0.45 U	0.45 U	0.5 U	0.5 U	0.45 U	0.45 U	0.5 U
Silver	0.023 J	0.025 J	0.028 J	0.19	0.5	0.1 U	0.02 J
Zinc	56	46	77	590	610	27	54

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-5
Solutia
Sauget Area 1
Biota
Method 6010B/7471A/9010B Inorganic Data

Sample ID	PTISS D-2 DC D	PTISS D-3 DC D	PTISS E-1 DC E	PTISS E-2 DC E	PTISS F-1 DC F	PTISS F-3 DC F	PTISS PRAIRIE DUPONT R2
Sample Date	10/04/99	10/04/99	10/06/99	10/06/99	10/07/99	10/07/99	10/08/99
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound							
Aluminum	93	110	21	17	44	30	160
Antimony	0.15 J	0.18 U	0.13 J	0.2 U	0.2 U	0.13 J	0.2 U
Arsenic	1 U	1 U	1 U	0.91 U	0.56 J	0.42 J	0.91 U
Beryllium	0.91 U	0.91 U	0.91 U	1 U	1 U	1 U	1 U
Cadmium	0.45 U	0.45 U	0.13 J	0.5 U	0.5 U	0.097 J	0.5 U
Chromium	0.36 J	0.53	0.45 U	0.5 U	0.5 U	0.5 U	0.25 J
Copper	4.8	3.5	1.8 J	2.9	1.9 J	2.1	0.95 J
Cyanide, Total	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead	1.5	2.3	0.66	0.51	1.2	0.44 J	0.3 J
Mercury	0.017 U	0.018 U	0.02 U	0.018 U	0.02 U	0.017 U	0.018 U
Nickel	1.6 J	2.5 J	9.1 U	10 U	2.6 J	1.2 J	10 U
Selenium	0.45 U	0.45 U	0.45 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	0.1 U	0.1 U	0.1 U	0.091 U	0.091 U	0.083 U	0.091 U
Zinc	28	27	23	27	20	26	8.3

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-5
Solutia
Sauget Area 1
Biota
Method 6010B/7471A/9010B Inorganic Data

Compound	Sample ID	PTISS REF 2-1 RC	SHRIMP BP COMP	SHRIMP REF1 COMP	SHRIMP REF2 COMP	SN REF1 COMP 1	SN REF2-1 COMP1	SNCS-B COMP1
	Sample Date	10/08/99	10/06/99	10/07/99	10/08/99	10/08/99	10/08/99	10/05/99
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum		360	28	60	100	710	590	400
Antimony		0.2 U	0.16 J	0.18 U	0.17 U	0.17 U	0.18 U	0.18 U
Arsenic		1.1 J	2.0 U	2.0 U	1.2 J	1.5	1.6	2.0
Beryllium		1 U	1.0 U	0.91 U	0.83 U	0.83 U	0.91 U	0.91 U
Cadmium		0.5 U	0.50 U	0.45 U	0.42 U	0.42 U	0.069 J	0.16 J
Chromium		0.53	0.23 J	0.26 J	0.28 J	1.9	1.2	0.89
Copper		1.3 J	8.3	8.5	16	12	10	31
Cyanide, Total		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead		0.64	0.39 J	0.38 J	0.61	3.0	2.3	2.6
Mercury		0.017 U	0.095 U	0.091 U	0.083 U	0.087 U	0.091 U	0.071 U
Nickel		10 U	10 U	9.1 U	8.3 U	1.9 J	1.7 J	2.0 J
Selenium		0.5 U	0.50 U	0.47	0.61	0.42 U	0.49	0.45 U
Silver		0.1 U	0.090 J	0.059 J	0.062 J	0.023 J	0.018 J	0.065 J
Zinc		6.8	16	15	17	12	12	16

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-5
Solutia
Sauget Area 1
Biota
Method 6010B/7471A/9010B Inorganic Data

Compound	Sample ID	SNCS-C COMP1	SNCS-D COMP1	SRM (NIST 2976)
	Sample Date	10/04/99	10/04/99	01/26/00
	Units	mg/kg	mg/kg	mg/kg
Aluminum		320	500	120
Antimony		0.12 J	0.20 U	0.20 U
Arsenic		1.6	1.8	11
Beryllium		0.91 U	1.0 U	1.0 U
Cadmium		0.60	0.67	0.81
Chromium		3.1	2.2	0.56
Copper		120	73	4.2
Cyanide, Total		10 U	10 U	—
Lead		11	7.2	1.3
Mercury		0.077 U	0.077 U	0.056 J
Nickel		21	11	10 U
Selenium		0.45 U	0.50 U	2.8
Silver		0.063 J	0.068 J	0.10 U
Zinc		110	90	140

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Sample ID	BB BP COMP 1	BB BP COMP 1FD	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1
Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,3,4,6,7,8,9-OCDD	0.0109	0.012	0.0102	0.011	0.0208	0.0207	0.0027
1,2,3,4,6,7,8,9-OCDF	0.00061	0.0007	0.0012	0.00076	0.0016	0.0008 U	0.00052
1,2,3,4,6,7,8-HpCDD	0.0024	0.002	0.003	0.0015	0.0018	0.003	0.00081
1,2,3,4,6,7,8-HpCDF	0.00056	0.00053	0.001 U	0.0002 U	0.0004 U	0.0004 U	0.0002 U
1,2,3,4,7,8,9-HpCDF	0.0002 U	0.0003 U	0.0013 U	0.0003 U	0.0005 U	0.0005 U	0.0002 U
1,2,3,4,7,8-HxCDD	0.0002 U	0.00026	0.001 U	0.0002 U	0.0004 U	0.0004 U	0.0002 U
1,2,3,4,7,8-HxCDF	0.001	0.00093	0.0014	0.00059	0.00049	0.00048	0.00026
1,2,3,6,7,8-HxCDD	0.0015	0.0013	0.0024	0.00078	0.00062	0.0012	0.00039
1,2,3,6,7,8-HxCDF	0.00022	0.00027	0.0007 U	0.0002 U	0.0003 U	0.0003 U	0.0001 U
1,2,3,7,8,9-HxCDD	0.0002 U	0.0002 U	0.001 U	0.0003 U	0.0004 U	0.0004 U	0.0002 U
1,2,3,7,8,9-HxCDF	0.0002 U	0.0002 U	0.0009 U	0.00069	0.0003 U	0.0004 U	0.0001 U
1,2,3,7,8-PeCDD	0.00088	0.00086	0.0011	0.00042	0.0004 U	0.0005 U	0.0002 U
1,2,3,7,8-PeCDF	0.0002 U	0.0001 U	0.0006 U	0.0002 U	0.0003 U	0.0003 U	0.0001 U
2,3,4,6,7,8-HxCDF	0.00037	0.00027	0.0008 U	0.00016	0.0003 U	0.0003 U	0.0001 U
2,3,4,7,8-PeCDF	0.0016	0.0015	0.0016	0.00077	0.00033	0.0003 U	0.0001 U
2,3,7,8-TCDD	0.00087	0.0008	0.001 U	0.00033	0.00042	0.0005 U	0.0002
2,3,7,8-TCDF	0.0034	0.0032	0.0036	0.0016	0.0003 U	0.00075	0.0001 U
1998 Total TEQ w/ EMPC as ND	0.003605751	0.00339357	0.00382764	0.001661676	0.00102824	0.00104311	0.000442922

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Compound	Sample ID	CLAM BP-1 COMP 01	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F F. BP COMP 1
	Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2,3,4,6,7,8,9-OCDD		0.0034	0.0151	0.0057	0.0124	0.0102	0.0068	0.0089
1,2,3,4,6,7,8,9-OCDF		0.0003 U	0.0012 U	0.0007 U	0.0011 U	0.0018	0.0004 U	0.0044
1,2,3,4,6,7,8-HpCDD		0.0003 U	0.0014	0.0006 U	0.0008 U	0.001	0.00059	0.0012
1,2,3,4,6,7,8-HpCDF		0.0002 U	0.0005 U	0.0003 U	0.0005 U	0.0003 U	0.0002 U	0.001
1,2,3,4,7,8,9-HpCDF		0.0002 U	0.0008 U	0.0005 U	0.0007 U	0.0005 U	0.0003 U	0.00058
1,2,3,4,7,8-HxCDD		0.0002 U	0.0006 U	0.0004 U	0.0005 U	0.0003 U	0.0002 U	0.0002 U
1,2,3,4,7,8-HxCDF		0.0001 U	0.0004 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.00077
1,2,3,6,7,8-HxCDD		0.0002 U	0.0005 U	0.0003 U	0.0005 U	0.0003 U	0.0002 U	0.0006
1,2,3,6,7,8-HxCDF		0.0001 U	0.0003 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.0001 U
1,2,3,7,8,9-HxCDD		0.0002 U	0.0006 U	0.0004 U	0.0006 U	0.0004 U	0.0002 U	0.0002 U
1,2,3,7,8,9-HxCDF		0.0001 U	0.0004 U	0.0003 U	0.0004 U	0.0003 U	0.0002 U	0.0002 U
1,2,3,7,8-PeCDD		0.0001 U	0.0004 U	0.0003 U	0.0004 U	0.0003 U	0.0002 U	0.0002 U
1,2,3,7,8-PeCDF		0.0001 U	0.0003 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.0001 U
2,3,4,6,7,8-HxCDF		0.0001 U	0.0003 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.0001 U
2,3,4,7,8-PeCDF		0.0001 U	0.0003 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.00046
2,3,7,8-TCDD		0.0001 U	0.0003 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.00072
2,3,7,8-TCDF		0.00031	0.0015	0.00066	0.0003 U	0.0002 U	0.00025	0.0067
1998 Total TEQ w/ EMPC as ND		0.000212355	0.00085957	0.000478605	0.000603795	0.0004252	0.0002666	0.00270863

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Sample ID	F.F. BP COMP 2	F F BP COMP 3	F F CS B COMP 1	F.F. CS-D COMP 1	F.F. REF 1 COMP 1	F F. REF 2 COMP 1	F.F. REF 2 COMP 2
Sample Date	01/26/00	01/26/00	01/25/00	01/26/00	01/25/00	01/25/00	01/25/00
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,3,4,6,7,8,9-OCDD	0.0269	0.0238	1.68	0.213	0.0223	0.0526	0.0233
1,2,3,4,6,7,8,9-OCDF	0.0011 U	0.0013	0.57	0.0481	0.0016	0.018	0.0014
1,2,3,4,6,7,8-HpCDD	0.0018	0.0016	0.211	0.0274	0.0018	0.0047	0.0023
1,2,3,4,6,7,8-HpCDF	0.0005 U	0.0004 U	0.0994	0.0154	0.0002 U	0.0016	0.0004 U
1,2,3,4,7,8,9-HpCDF	0.0009 U	0.0006 U	0.0073	0.0011	0.0003 U	0.0007 U	0.0007 U
1,2,3,4,7,8-HxCDD	0.0006 U	0.0004 U	0.0053	0.0012	0.0003 U	0.0005 U	0.0005 U
1,2,3,4,7,8-HxCDF	0.0004 U	0.00041	0.0096	0.0028	0.0004	0.00057	0.0003 U
1,2,3,6,7,8-HxCDD	0.0005 U	0.0004 U	0.0323	0.0073	0.00058	0.00066	0.00067
1,2,3,6,7,8-HxCDF	0.0003 U	0.0003 U	0.0041	0.001	0.0002 U	0.0003 U	0.0003 U
1,2,3,7,8,9-HxCDD	0.0006 U	0.0005 U	0.0103	0.0018	0.0003 U	0.0005 U	0.0005 U
1,2,3,7,8,9-HxCDF	0.0005 U	0.0004 U	0.0002 U	0.0003 U	0.0002 U	0.0004 U	0.0004 U
1,2,3,7,8-PeCDD	0.0006 U	0.0005 U	0.021	0.0035	0.0003 U	0.00095	0.0005 U
1,2,3,7,8-PeCDF	0.0004 U	0.0003 U	0.0052	0.0003 U	0.0002 U	0.0004 U	0.0004 U
2,3,4,6,7,8-HxCDF	0.0004 U	0.0003 U	0.006	0.0013	0.0002 U	0.0004 U	0.0003 U
2,3,4,7,8-PeCDF	0.0004 U	0.0003 U	0.0127	0.0026	0.0002 U	0.0004 U	0.0004 U
2,3,7,8-TCDD	0.0005 U	0.0004 U	0.0188	0.0022	0.00046	0.00086	0.0005 U
2,3,7,8-TCDF	0.0034	0.0036	0.0595	0.0148	0.0028	0.0013	0.0005 U
1998 Total TEQ w/ EMPC as ND	0.001652745	0.00159201	0.073832	0.01363761	0.00142589	0.00247156	0.00084797

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Sample ID	F.F REF 2 COMP 3	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1
Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
Units	ug/kg	ppb	ppb	ppb	ppb	ppb	ppb
Compound							
1,2,3,4,6,7,8,9-OCDD	0.068	---	---	---	---	---	---
1,2,3,4,6,7,8,9-OCDF	0.0006 U	---	---	---	---	---	---
1,2,3,4,6,7,8-HpCDD	0.0042	---	---	---	---	---	---
1,2,3,4,6,7,8-HpCDF	0.0003 U	---	---	---	---	---	---
1,2,3,4,7,8,9-HpCDF	0.0005 U	---	---	---	---	---	---
1,2,3,4,7,8-HxCDD	0.0003 U	---	---	---	---	---	---
1,2,3,4,7,8-HxCDF	0.00023	---	---	---	---	---	---
1,2,3,6,7,8-HxCDD	0.00044	---	---	---	---	---	---
1,2,3,6,7,8-HxCDF	0.0002 U	---	---	---	---	---	---
1,2,3,7,8,9-HxCDD	0.0004 U	---	---	---	---	---	---
1,2,3,7,8,9-HxCDF	0.0003 U	---	---	---	---	---	---
1,2,3,7,8-PeCDD	0.0003 U	---	---	---	---	---	---
1,2,3,7,8-PeCDF	0.0002 U	---	---	---	---	---	---
2,3,4,6,7,8-HxCDF	0.0002 U	---	---	---	---	---	---
2,3,4,7,8-PeCDF	0.0003 U	---	---	---	---	---	---
2,3,7,8-TCDD	0.00048	---	---	---	---	---	---
2,3,7,8-TCDF	0.00095	---	---	---	---	---	---
1998 Total TEQ w/ EMPC as ND	0.00099483	0.00294793	0.002113305	0.002776225	0.00077673	0.00046505	0.00079906

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Sample ID	LMB REF 2 COMP 2	PTISS B-1 DC B	PTISS B-2 DC B	PTISS B-3 DC B	PTISS C-1 DC C	PTISS C-2 DC C	PTISS C-3 DC C
Sample Date	01/25/00	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00
Units	ppb	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound							
1,2,3,4,6,7,8,9-OCDD	---	1.39	3.57	2.17	22.73	15.06	1.09
1,2,3,4,6,7,8,9-OCDF	---	0.14	0.89	0.252	13.88	7.93	0.64
1,2,3,4,6,7,8-HpCDD	---	0.155	0.393	0.288	5.23	2.81	0.125
1,2,3,4,6,7,8-HpCDF	---	0.0403	0.165	0.076	2.81	1.75	0.0759
1,2,3,4,7,8,9-HpCDF	---	0.0034	0.0151	0.0039	0.148	0.104	0.0052
1,2,3,4,7,8-HxCDD	---	0.0022	0.0045	0.0087	0.0294	0.0263	0.0011
1,2,3,4,7,8-HxCDF	---	0.0033	0.0074	0.0068	0.0834	0.0574	0.0022
1,2,3,6,7,8-HxCDD	---	0.0053	0.0133	0.0169	0.167	0.104	0.0045
1,2,3,6,7,8-HxCDF	---	0.0016	0.0033	0.0165	0.0456	0.0359	0.0019
1,2,3,7,8,9-HxCDD	---	0.0052	0.0101	0.0283	0.1	0.0843	0.0022
1,2,3,7,8,9-HxCDF	---	0.0002 U	0.00024	0.0006 U	0.005	0.0036	0.0001 U
1,2,3,7,8-PeCDD	---	0.0014	0.002	0.0134	0.0199	0.015	0.0001 U
1,2,3,7,8-PeCDF	---	0.0005	0.0018	0.0012	0.008	0.0089	0.00072
2,3,4,6,7,8-HxCDF	---	0.0026	0.0058	0.026	0.0619	0.0498	0.0032
2,3,4,7,8-PeCDF	---	0.0017	0.0063	0.0035	0.0205	0.018	0.00096
2,3,7,8-TCDD	---	0.0003 U	0.00072	0.0062	0.006	0.0039	0.0001 U
2,3,7,8-TCDF	---	0.0048	0.0043	0.0047	0.047	0.0225	0.0022
1998 Total TEQ w/ EMPC as ND	0.00137105	0.007315	0.017771	0.0370112	0.178501	0.120344	0.004695

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

	Sample ID	PTISS D-1 DC D	PTISS D-2 DC D	PTISS D-3 DC D	PTISS E-1 DC E	PTISS E-2 DC E	PTISS F-1 DC F	PTISS F-3 DC F
	Sample Date	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		0.343	0.599	0.773	0.278	0.0344	0.0833	0.0569
1,2,3,4,6,7,8,9-OCDF		0.125	0.222	0.247	0.0817	0.0085	0.0335	0.0226
1,2,3,4,6,7,8-HpCDD		0.0352	0.0703	0.0977	0.0319	0.004	0.0116	0.0074
1,2,3,4,6,7,8-HpCDF		0.0195	0.0348	0.0472	0.0173	0.0023	0.0074	0.0057
1,2,3,4,7,8,9-HpCDF		0.0014	0.0027	0.0028	0.0013	0.0007 U	0.0006 U	0.0006 U
1,2,3,4,7,8-HxCDD		0.0001 U	0.00067	0.0012	0.0004 U	0.0006 U	0.0005 U	0.0005 U
1,2,3,4,7,8-HxCDF		0.00094	0.0014	0.0017	0.00091	0.0004 U	0.0004 U	0.0004 U
1,2,3,6,7,8-HxCDD		0.0011	0.0026	0.0044	0.0004 U	0.0005 U	0.0005 U	0.0005 U
1,2,3,6,7,8-HxCDF		0.0014	0.001	0.0015	0.0003 U	0.0004 U	0.0003 U	0.0003 U
1,2,3,7,8,9-HxCDD		0.00089	0.0016	0.0044	0.0004 U	0.0005 U	0.0005 U	0.0005 U
1,2,3,7,8,9-HxCDF		0.0001 U	0.0001 U	0.0001 U	0.0003 U	0.0005 U	0.0004 U	0.0004 U
1,2,3,7,8-PeCDD		0.0002 U	0.00048	0.0002 U	0.0003 U	0.0005 U	0.0004 U	0.0004 U
1,2,3,7,8-PeCDF		0.0001 U	0.0001 U	0.0001 U	0.0003 U	0.0004 U	0.0003 U	0.0004 U
2,3,4,6,7,8-HxCDF		0.0015	0.0011	0.0018	0.0003 U	0.0004 U	0.0003 U	0.0004 U
2,3,4,7,8-PeCDF		0.0001 U	0.00064	0.00066	0.0003 U	0.0004 U	0.0003 U	0.0004 U
2,3,7,8-TCDD		0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.0005 U	0.0004 U	0.0005 U
2,3,7,8-TCDF		0.00046	0.0011	0.0015	0.0003 U	0.0005 U	0.0004 U	0.0004 U
1998 Total TEQ w/ EMPC as ND		0.0015743	0.0032046	0.0039965	0.00172155	0.00087079	0.00085218	0.00087195

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Compound	Sample ID	PTISS PRAIRIE DUPONT R2	PTISS REF 2-1 RC	SHRIMP BP COMP	SHRIMP REF 1 COMP	SHRIMP REF 2 COMP	SN FEF1 COMP 1	SN REF2-1 COMP 1
	Sample Date	01/31/00	01/31/00	01/26/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2,3,4,6,7,8,9-OCDD		0.0871	0.0832	0.0198	0.0166	0.0299	0.288	0.323
1,2,3,4,6,7,8,9-OCDF		0.0085	0.00062	0.0043	0.0011	0.0005 U	0.0021	0.0014
1,2,3,4,6,7,8-HpCDD		0.0061	0.0021	0.0031	0.0011	0.0024	0.0077	0.0085
1,2,3,4,6,7,8-HpCDF		0.0014	0.0002 U	0.0015	0.0003 U	0.0002 U	0.0002 U	0.0002 U
1,2,3,4,7,8,9-HpCDF		0.001 U	0.0002 U	0.0004 U	0.0005 U	0.0003 U	0.0004 U	0.0003 U
1,2,3,4,7,8-HxCDD		0.0009 U	0.0002 U	0.0003 U	0.0004 U	0.0003 U	0.0002 U	0.0002 U
1,2,3,4,7,8-HxCDF		0.0006 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0001 U	0.0001 U
1,2,3,6,7,8-HxCDD		0.0008 U	0.0002 U	0.0002 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U
1,2,3,6,7,8-HxCDF		0.0006 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0001 U	0.0001 U
1,2,3,7,8,9-HxCDD		0.0008 U	0.0002 U	0.0003 U	0.0004 U	0.00069	0.0002 U	0.0002 U
1,2,3,7,8,9-HxCDF		0.0007 U	0.0001 U	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0002 U
1,2,3,7,8-PeCDD		0.0007 U	0.0002 U	0.0003 U	0.0004 U	0.0003 U	0.0002 U	0.0002 U
1,2,3,7,8-PeCDF		0.0006 U	0.0001 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.0001 U
2,3,4,6,7,8-HxCDF		0.0006 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U	0.0001 U	0.0001 U
2,3,4,7,8-PeCDF		0.0006 U	0.0001 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U	0.0002 U
2,3,7,8-TCDD		0.0008 U	0.0001 U	0.0002 U	0.0003 U	0.0003 U	0.0001 U	0.0002 U
2,3,7,8-TCDF		0.0007 U	0.0001 U	0.0016	0.0002 U	0.0002 U	0.0001 U	0.0001 U
1998 Total TEQ w/ EMPC as ND		0.00128956	0.000263882	0.00077541	0.00055927	0.000533515	0.00034651	0.00043244

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Sample ID	SNCS-B COMP 1	SNCS-C COMP 1	SNCS-D COMP 1	WC BP COMP 1	WC BP COMP 2	WC BP COMP 3	WC REF1 COMP 1
Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
Units	ug/kg	ug/kg	ug/kg	ppb	ppb	ppb	ppb
Compound							
1,2,3,4,6,7,8,9-OCDD	1.36	12.95	3.4	---	---	---	---
1,2,3,4,6,7,8,9-OCDF	0.405	6.02	1.2	---	---	---	---
1,2,3,4,6,7,8-HpCDD	0.164	1.56	0.436	---	---	---	---
1,2,3,4,6,7,8-HpCDF	0.0837	1.05	0.249	---	---	---	---
1,2,3,4,7,8,9-HpCDF	0.0054	0.0733	0.013	---	---	---	---
1,2,3,4,7,8-HxCDD	0.0022	0.0071	0.0047	---	---	---	---
1,2,3,4,7,8-HxCDF	0.0043	0.029	0.0078	---	---	---	---
1,2,3,6,7,8-HxCDD	0.0085	0.0599	0.0173	---	---	---	---
1,2,3,6,7,8-HxCDF	0.0015	0.0121	0.0044	---	---	---	---
1,2,3,7,8,9-HxCDD	0.0066	0.0239	0.0118	---	---	---	---
1,2,3,7,8,9-HxCDF	0.0002 U	0.0012	0.0002 U	---	---	---	---
1,2,3,7,8-PeCDD	0.0026	0.006	0.003	---	---	---	---
1,2,3,7,8-PeCDF	0.0006	0.0023	0.0011	---	---	---	---
2,3,4,6,7,8-HxCDF	0.0028	0.0207	0.0087	---	---	---	---
2,3,4,7,8-PeCDF	0.0021	0.0109	0.0045	---	---	---	---
2,3,7,8-TCDD	0.0012	0.0014	0.00061	---	---	---	---
2,3,7,8-TCDF	0.0028	0.0118	0.0061	---	---	---	---
1998 Total TEQ w/ EMPC as ND	0.0109575	0.060475	0.020275	0.02362395	0.00051373	0.00037507	0.00028342

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-6
Solutia
Sauget Area 1
Biota
Method 8290 PCDD/PCDF Data

Compound	Sample ID	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2	WC REF2 COMP 2FD
	Sample Date	01/25/00	01/25/00	01/25/00	01/25/00
	Units	ppb	ppb	ppb	ppb
1,2,3,4,6,7,8,9-OCDD		---	---	---	---
1,2,3,4,6,7,8,9-OCDF		---	---	---	---
1,2,3,4,6,7,8-HpCDD		---	---	---	---
1,2,3,4,6,7,8-HpCDF		---	---	---	---
1,2,3,4,7,8,9-HpCDF		---	---	---	---
1,2,3,4,7,8-HxCDD		---	---	---	---
1,2,3,4,7,8-HxCDF		---	---	---	---
1,2,3,6,7,8-HxCDD		---	---	---	---
1,2,3,6,7,8-HxCDF		---	---	---	---
1,2,3,7,8,9-HxCDD		---	---	---	---
1,2,3,7,8,9-HxCDF		---	---	---	---
1,2,3,7,8-PeCDD		---	---	---	---
1,2,3,7,8-PeCDF		---	---	---	---
2,3,4,6,7,8-HxCDF		---	---	---	---
2,3,4,7,8-PeCDF		---	---	---	---
2,3,7,8-TCDD		---	---	---	---
2,3,7,8-TCDF		---	---	---	---
1998 Total TEQ w/ EMPC as ND		0.00062849	0.00036404	0.000298635	0.000194025

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-7
Solutia
Sauget Area 1
Biota
Method EX41 Lipids Data

	Sample ID	BB BP COMP 1	BB BP COMP 2	BB BP COMP 3	BB REF 1-2 COMP 1	BB REF 1-2 COMP 2	BB REF 2-2 COMP 1	CLAM BP-1 COMP 01
	Sample Date	11/01/99	10/07/99	10/07/99	10/08/99	10/08/99	11/02/99	10/06/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		1.4	1.7	0.3	1	1.4	1	0.09

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-7
Solutia
Sauget Area 1
Biota
Method EX41 Lipids Data

	Sample ID	CLAM BP-2 COMP 01	CLAM BP-3 COMP 01	CLAM REF-1 COMP 01	CLAM REF2-2 COMP 01	CLAM REF2-2 COMP 02	F F. BP COMP 1	F.F. BP COMP 2
	Sample Date	10/07/99	10/06/99	10/08/99	10/08/99	10/09/99	10/04/99	10/06/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		0.23	0.05	0.12	0.12	0.09	1.5	1.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table 11-7
Solutia
Sauget Area 1
Biota
Method EX41 Lipids Data

	Sample ID	F.F. BP COMP 3	F.F. CS B COMP 1	F F. CS-D COMP 1	F.F. REF 1 COMP 1	F.F. REF 2 COMP 1	F.F. REF 2 COMP 2	FF REF 2 COMP 3
	Sample Date	10/06/99	10/05/99	10/04/99	10/08/99	10/08/99	10/08/99	10/08/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		1.6	1.1	1.3	2.6	1	1.1	1.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table 11-7
Solutia
Sauget Area 1
Biota
Method EX41 Lipids Data

	Sample ID	SHRIMP BP COMP	SHRIMP REF1 COMP	SHRIMP REF2 COMP	SN REF1 COMP 1	SN REF2-1 COMP1	SNCS-B COMP1	SNCS-C COMP1
	Sample Date	10/06/99	10/07/99	10/08/99	10/08/99	10/08/99	10/05/99	10/04/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		0.03	0.27	0.38	0.13	0.16	0.09	0.17

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table 11-7
Solutia
Sauget Area 1
Biota
Method EX41 Lipids Data

	Sample ID	SNCS-D COMP1	SRM (NIST 1974)
	Sample Date	10/04/99	01/26/00
	Units	%	%
Compound			
% Lipids		0.26	0.38

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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