L1970450003 – Will
Carlstrom Landfill
ILD 980497721
SF/HRS

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

EPA Region 5 Records Ctr.
300627

SITE NAME CARLSTROM LANDFILL
ILD NUMBER 980497721

TABLE E-1
SAMPLE SUMMARY
(Soil)

Sampling Location	X101		X102		X103		X104		X105		X106		X107		X108		X109		X110		RAL's
Date Sampled	3/31/2004 (Background)		3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004		
Volatile Compound																					
ACETONE	6	J	5	J	24	J	--		--		--		6	J	3000	J	6	J	3	J	--
METHYLENE CHLORIDE	--		--		--		3	J	3	J	5	J			--		--				
2-BUTANONE	--		--		--		--		--		--		--		30		--		--		--
CYCLOHEXANE	--		--		--		--		--		--		-		22	J	-		--		
BENZENE	--		--		--		--		--		--		--		41		--		--		
METHYLCYCLOHEXANE	--		--		--		--		--		--		--		11	J	--		--		
TOLUENE	--		--		--		--		--		--		--		12	J	--		--		18000000
XYLENES (TOTAL)	--		--		--		--		--		--		--		41	J	--		--		--
ISOPROPYLBENZENE	--		--		--		--		--		--		--		12	J	--		--		
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg
Semivolatile Compound																					
PHENANTHRENE	87	J	83	J	--		88	J	--		140	J	--		440	J	65	J	140	J	1000000
ANTHRACENE	--		--		--		42	J	--		--		--		--		--		49	J	1000000
FLUORANTHENE	240	J	200	J	460	J	230	J	--		310	J	120	J	860	J	180	J	300	J	1000000
PYRENE	330	J	260	J	690	J	230	J	--		250	J	220	J	710	J	150	J	290	J	1000000
BENZO(A)ANTHRACENE	110	J	82	J	--		140	J	--		190	J	66	J	480	J	110	J	280	J	1000000
CHRYSENE	180	J	140	J	750	J	170	J	-		230	J	98	J	550	J	120	J	370	J	1000000
BIS(2-ETHYLHEXYL)PHTHALATE	61	J	59	J	1200	J	--		--		--		100	J	--		--		75	J	
BENZO(B)FLUORANTHENE	180	J	130	J	380	J	210	J	-		190	J	99	J	530	J	140	J	300	J	--
BENZO(K)FLUORANTHENE	150	J	140	J	--		180	J	--		180	J	89	J	680	J	120	J	280	J	1000000
BENZO(A)PYRENE	220	J	150	J	710	J	180	J	--		110	J	160	J	430	J	93	J	250	J	1000000
INDENO(1,2,3-CD)-PYRENE	160	J	120	J	480	J	210	J	--		99	J	100	J	--		92	J	220	J	1000000
DIBENZO(A,H)-ANTHRACENE	49	J	57	J	--		67	J	--		48	J	--		--		--		89	J	1000000
BENZO(G,H,I)PERYLENE	--		--		490	J	65	J	--		--		--		--		--		48	J	1000000
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg
Pesticide/PCB Compound																					
DELTA-BHC	--		--		--		2.3	J	--		--		--		--		--		--		--
HEPTACHLOR	--		--		2.2	J	--		--		--		--		--		--		--		38000
HEPTACHLOR EPOXIDE	--		--		17	J	--		--		2.4	J	--		--		--		17	J	23000
ENDOSULFAN I	--		--		2.3	J	--		--		--		--		--		--		--		38000
DIELDRIN	--		--		17	J	--		--		--		--		--		--		25	J	11000
4,4'-DDE	--		--		--		--		--		18	J	--		--		--		11	J	500000
ENDRIN	--		--		13	J	--		--		--		--		--		--		19	J	230000
ENDOSULFAN II	--		--		--		--		--		6.0	J					-		--		39000
ENDOSULFAN SULFATE	--		--		--		--		--		50	J	-		--		--		--		--
4,4'-DDT	5.1	J	9.7	J	--		--		5.6	J	20	J	-		--		-		-		390000
METHOXYCHLOR	--		--		88	J	--		--		--		--		--		--		--		--
ENDRIN ALDEHYDE	--		--		27	J	--		--						--				10	J	-
ALPHA-CHLORDANE	--		--		13	J	3.6	J	--		--		--		--		--		17	J	--
GAMMA-CHLORDANE	--		--		25	J	2.6	J	--		6.3	J			--		-		28	J	
AROCLOR-1254	--		--		410	J	--		--		--		--		100	J	--		430	J	22000
AROCLOR-1260	--		--		--		--		--		-		-		110	J	--		300	J	22000
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg
Tentatively Identified Compounds																					
DIMETHYL SULFIDE	--		110	NJ	21	NJ	--		--		27	NJ	57	NJ	--		54	NJ	--		--
CYCLOTETRASILOXANE,OCTAMETHYL-	--		--		17	NJ	--		--		--		-		--		27	NJ	--		--
BENZENE,METHYL(1-METHYLETHYL)-	--		--		--		--		--		--		--		14	NJ	--		--		--
1,1'-BIPYNYL,BIS(1-METHYL)-	--		--		3400	NJ	--		--				--		--		-		--		--
CYCLOPENTASILOXANE,DECAMETHYL-	120	NJ	130	NJ	--		110	NJ	--		--		--		--		--		--		--
2H-1-BENZOPYRAN-2-ONE	--		--		--		--				140	NJ	--		--				-		
N-HEXADECANOIC ACID	450	NJ	490	NJ	--		--		--		370	NJ	210	NJ	--		--		--		--
1,21-DOCOSADIENE	--		--		--		--		--		1200	NJ	-		--						
STIGMASTEROL,22,23-DIHYDRO-	--		--		--		--		--		810	NJ	--		--		--		--		--
BENZOFURAN	--		--		--		--		-				130	NJ	--						-
2-PHENANTHRENOL,4B,5,6,7,8,9,10-OCTA	--		--		--		--		--		--		650	NJ	--		--		--		--
STIGMAST-4-EN-3-ONE	--		660	NJ	-		--		--				350	NJ	-				--		
BICYCLO(7.2.0)UNDEC-4-ENE,4,11,11-TRIME	--		--		--		--		--		--		--		1100	NJ	--		--		--
URA-12-EN-24-OIC ACID,3-OXO-,METHYL ES	--		--		--		--		-				-		--		270	NJ	--		
OXIRANE,HEPTADECYL-	--		630	NJ	--		--		--		--		--		--		--		--		--
1,19-EICOSADIENE	500	NJ	--		--		--		--				-		--				--		-
9-HEXACOSENE	380	NJ	--		--		--		--		--		--		--		--		--		--
GAMMA-SITOSTEROL	600	NJ	--		--		--		--						--		--		--		--
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg
Inorganics																					
ALUMINUM	4960		4710		7200		4690		3980		9580		5700		3970		4410		8140		310
ANTIMONY	1.6	J	--		--		--		2.9	J	2.5	J	2.3	J	2.7	J	--		1.9	J	--
ARSENIC	7.7		8.9		11.3		7.1		6		14.7		10.5		7.6		8.4		10.5		200
BARIUM	68.2		67		72.4		57.9		69.5		253		90.7		65.4	J	109		143		-
BERYLLIUM	0.61	J	0.59	J	0.67	J	0.4	J	0.68	J	1.3	J	0.55	J	0.93	J	0.4	J	0.53	J	40
CADMIUM	0.82	J	0.65	J	3.1		--		0.53	J	2.3		1.1	J	2.8		5.4		4.2		25
CALCIUM	52900		50800		52600		88800		54700		50800		62400		29500		45500		53000		--
CHROMIUM	11.4		10.7		41.5		8.1		8.2		18.9		19.1		30.3		42.3		33.6		400
COBALT	7.6	J	7.4	J	10	J	8.1	J	8.2	J	11	J	10.9	J	4.4	J	6.6	J	9.3	J	--
COPPER	20.7		22		47.5		15.2		19.3		50.5		35.9	J	37.8		51.1	J	43.6		5000
IRON	14600		14100		18000		12800		11000		31200		18700		15300		13800		13800		--
LEAD	50.6		51.6		71.2		26		109		1130		37.5		62.6		80.1		61.8		1000
MAGNESIUM	31100		29500		30400		51300		28900		27900		31500		14200		23900		33000		--
MANGANESE	393		398		452		493		389		901		673		144		402		900		--
MERCURY	--		--		--		--		--		--		0.16		0.39		0.55		0.21		1600
NICKEL	15.6		15.6		29.2		12.6		12.2		26.7		24.7		16.9		22.9		22.5		1600
POTASSIUM	1330	J	1240	J	867	J	870	J	1010	J	2160	J	986	J	684	J	979	J	771	J	--
SILVER	--		--		--		--		--				-		--		3		2.6		2300
SODIUM	--		--		200	J	122	J	162	J	--		225	J	262	J	131	J	391	J	--
VANADIUM	15.5		16.2		19.9		13.3		--		27.3		18.1		--		12.8		18.4		--
ZINC	164		188		436		60.7		116		633		123		246		269		189		160000
CYANIDE	--		--		--		--		--		--		--		--		1.5		--		350
	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg
pH	8.3		7.9		7.6		8.2		8.0		8.2		8.4		8.3		7.5		8.7		-

SITE NAME CARLSTROM LANDFILL
ILD NUMBER 98049772I

TABLE E-2
SAMPLE SUMMARY
(Sediment)

Sampling Location	X201		X202		X203		X204		X205		X206		X207		X208		X209		Ontario Sediment Benchmark (Low)	USEPA ECOTOX Thresholds
Date Sampled	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/30/2004		3/30/2004		3/30/2004			
Volatile Compound																				
ACETONE	--		--		--		--		--		--		--		6	J	8	J	--	--
CHLOROBENZENE	--		--		--		--		--		--		--		--		6	J	--	820
1,4-DICHLOROBENZENE	--		--		--		--		--		--		--		--		3	J	--	350
1,2-DICHLOROBENZENE	--		--		--		--		--		--		--		--		8	J	--	340
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	ug/Kg
Semivolatile Compound																				
NAPHTHALENE	--		--		77	J	--		--		--		--		--		650	J	--	460
2-METHYLNAPHTHALENE	--		--		80	J	340	J	--		--		--		--		710	J	--	--
ACENAPHTHYLENE	--		--		250	J	580	J	1300	J	--		--		380	J	4000		--	--
ACENAPHTHENE	--		--		88	J	--		--		--		--		380	J	2500	J	--	620
DIBENZOFURAN	--		--		88	J	--		--		--		--		--		750	J	--	2000
FLUORENE	--		--		160	J	--		--		--		--		480	J	3100		--	540
PHENANTHRENE	3800		300	J	1200		1300	J	1500	J	2600	J	1500	J	2600		8400		--	860
ANTHRACENE	650	J	--		480	J	420	J	1100	J	540	J	530	J	1100	J	9200		--	--
CARBAZOLE	430	J	--		160	J	310	J	--		--		--		--		--		--	--
FLUORANTHENE	7400		800	J	2500		3100		12000		6700		4000		5300		30000		--	2900
PYRENE	5800		950	J	2100		2400	J	15000		6500		4000		6100		40000		--	660
BUTYLBENZYLPHTHALATE	--		--		100	J	--		820	J	--		--		--		--		--	11000
BENZO(A)ANTHRACENE	2900		700	J	1400		2600	J	8500		3200	J	2000	J	3000		28000		--	--
CHRYSENE	3600		890	J	1700		2700		10000		4300	J	2800		3400		29000		--	--
BIS(2-ETHYLHEXYL)PHTHALATE	630	J	220	J	380	J	--		13000		1800	J	880	J	420	J	--		--	--
BENZO(B)FLUORANTHENE	3100		980	J	1800		3100		11000		4300	J	2000	J	2300	J	17000		--	--
BENZO(K)FLUORANTHENE	2800		890	J	1400		2600		9800		3700	J	1700	J	2000	J	16000		--	--
BENZO(A)PYRENE	2300	J	590	J	970		1100	J	7800		4300	J	1900	J	2300	J	22000		--	430
INDENO(1,2,3-CD)-PYRENE	1700	J	810	J	810		880	J	6000		3300	J	1300	J	1400	J	12000		--	--
DIBENZO(A,H)-ANTHRACENE	560	J	230	J	330	J	530	J	2000	J	970	J	530	J	580	J	4900		--	--
BENZO(G,H,I)PERYLENE	400	J	--		120	J	--		1300	J	1400	J	370	J	620	J	4400		--	--
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	ug/Kg
Pesticides/PCB's																				
ALPHA-BHC	--		--		--		--		--		--		4.0	J	3.8	J	16	J	--	6
BETA-BHC	--		--		--		--		--		--		--		--		11	NJ	--	8
HEPTACHLOR	4.9	J	--		--		2.6	J	--		--		--		--		--		--	--
ALDRIN	--		--		--		--				--		2.6	NJ	2.8	NJ	--		2	--
HEPTACHLOR EPOXIDE	7.2	J	--		--		11	J	6.0	J	7.7	J	3.9	J	4.5	J	--		--	--
ENDOSULFAN I	--		--		--		4.6	J	--		--		--		--		--		--	2.9
DIELDRIN	14	J	6.0	J	7.6	J	12	J	19	J	12	J	--		--		8.3	J	2	--
4,4'-DDE	7.2	J	--		--		11	J	20	J	21	J	--		--		--		5	--
ENDRIN	--		--		--		12	J	--		11	J	7.3	J	6.6	J	16	J	3	--
ENDOSULFAN II	--		--		--		9.8	J	--		--		--		--		10	J	--	14
4,4'-DDD	--		--		--		22	J	19	J	--		5.7	J	6.3	J	20	J	8	--
ENDOSULFAN SULFATE	58	J	22	J	24	J	--		--		--		--		12	J	22	J	--	--
4,4'-DDT	24	J	12	J	11	J	38	J	74	J	--		--		--		15	J	7	--
METHOXYCHLOR	--		--		--		51	J	--		--		--		--		--		--	19
ENDRIN ALDEHYDE	--		4.3	J	--		--		--		--		--		--		--		--	--
GAMMA-CHLORDANE	--		6.1	J	8.8	J	7.6	J	21	J	37	J	--		--		--		7	--
AROCLOR-1260	220	J	--		--		--		--		--		--		--		--		6	--
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	ug/Kg
ALUMINUM	3960		5680		6270		6740		6250		4220		3750		3700		7590		--	--
ANTIMONY	--		--		1.5	J	6.6	J	6	J	2.1	J	2.7	J	1.8	J	4.8	J	--	
ARSENIC	6.2		5.9		9.5		63.1		16.4		8.3		14.5		8.9		26.6		6	--
BARIUM	161		202		109		90.6		172		109		139		100		307		--	--
BERYLLIUM	0.41	J	0.56	J	0.61	J	1.1	J	0.87	J	0.55	J	0.52	J	0.61	J	0.73	J	--	--
CADMIUM	1.4	J	8.6		0.27	J	1.7		2.7		3.2		6.1		7		13		0.6	--
CALCIUM	67700		61000		46500		38900		53300		75300		85900		95300		41600		--	--
CHROMIUM	37.3		51.7		21		22.7		21.3		44		72.5		79.5		212		--	--
COBALT	7.6	J	8.2	J	7	J	9.4	J	9.3	J	7	J	8	J	5	J	10.5	J	50	--
COPPER	52.6		51.5		41.7		87.3		137		54.5		123	J	82.3	J	378		16	--
IRON	14700		17200		22300		36000		20800		15600		20700		17900		30000		20000	--
LEAD	143		131		63.6		204		167		122		267		176		521		31	--
MAGNESIUM	42700		36800		34700		19200		27700		36200		49000		56900		25000		--	--
MANGANESE	566		587		260		502		663		400		374		368		359		460	-
MERCURY	0.22		0.86		--		[illegible]		--		0.21		4.8		0.67		6.1		0.2	--
NICKEL	19		29		21.6		28.8		24.9		23.3		24.9		25.1		80.9		16	--
POTASSIUM	808	J	2460		1080	J	1300	J	1110	J	669	J	679	J	630	J	1260	J	--	--
SILVER	--		3		--		--		--		--		--		--		7.8		0.5	--
SODIUM	481	J	3049		512	J	288	J	434	J	398	J	345	J	462	J	987	J	--	--
VANADIUM	--		14.6		24.9		22.4		--		--		--		--		22.3		--	--
ZINC	320		421		140		406		708		293		557		409		1210		120	--
CYANIDE	--		--		--		--		--		--		--		--		12		0.1	--
	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg
pH	7.3		9.7		7.6		8.3		7.9		7.6		8.4		7.6		8.3			

SITE NAME CARLSTROM LANDFILL
ILD NUMBER: 980497721

TABLE E-2 (Continued)
SAMPLE SUMMARY
(Sediment)

Sampling Location :	X201	X202	X203	X204	X205	X206	X207	X208	X209	Ontario Sediment Benchmark (Low)	USEPA ECOTOX Thresholds
Date Sampled :	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/30/2004	3/30/2004	3/30/2004		
Tentatively Identified Compounds											
LIMONENE	--	--	--	--	--	--	--	94 NJ	--	--	--
FLUORANTHENE, 2-METHYL-	990 NJ	--	--	--	--	--	940 NJ	--	--	--	--
BENZO[E]PYRENE	--	--	--	--	5900 NJ	3900 NJ	1500 NJ	--	17200 NJ	--	--
ANTHRACENE, 2-METHYL-	--	--	--	--	--	--	--	770 NJ	--	--	--
1H-CYCLOPROPA[L]PHENANTHRENE,1A,9B-DIHYD	--	--	--	--	--	--	--	870 NJ	9600 NJ	--	--
4B,8-DIMETHYL-2-ISOPROPYLPHENANTHRENE, 4	--	--	--	--	--	--	--	300 NJ	--	--	--
9,10-DIMETHYLANTHRACENE	--	--	--	--	--	--	--	1000 NJ	--	--	--
1,1'-BIPHENYL,BIS(1-METHYLETHYL)-	--	--	--	--	--	--	--	11000 NJ	--	--	--
DIBENZOTHIOPHENE-4METHYL-	--	--	--	--	--	--	--	--	5700 NJ	--	--
PHENANTHRENE, 1-METHYL-	--	--	--	--	--	--	--	--	5000 NJ	--	--
PHENANTHRENE, 2-METHYL-	--	--	--	--	--	--	--	--	10200 NJ	--	--
1A,9B-DIHYDRO-1H-CYCLOPROPA[A]ANTHRACENE	--	--	--	--	--	--	--	--	5700 NJ	--	--
ANTHRACENE, 1,4-DIMETHYL-	--	--	--	--	--	--	--	--	8400 NJ	--	--
PYRENE, 1-METHYL-	--	--	520 NJ	--	1400 NJ	--	--	--	14900 NJ	--	--
PYRENE, 4-METHYL-	--	--	--	--	1100 NJ	--	--	--	5600 NJ	--	--
FLUORANTHENE,2-METHYL-	--	--	--	--	--	--	--	--	12000 NJ	--	--
11H-BENZO[B]FLUORENE	--	--	--	--	2200 NJ	--	--	--	5600 NJ	--	--
BENZO[B]NAPHTHO[2,1-D]THIOPHENE	730 NJ	--	--	--	1700 NJ	--	--	--	5500 NJ	--	--
BENZO[C]PHENANTHRENE	--	--	--	--	--	--	--	--	5200 NJ	--	--
3,4-DIHYDROCYCLOPENTA[CD]PYRENE(ACEPHYRE	--	--	--	--	--	--	--	--	6000 NJ	--	--
TRIPHENYLENE,2-METHYL-	--	--	480 NJ	--	--	--	--	--	8500 NJ	--	--
CHRYSENE,1-METHYL-	--	--	--	--	--	--	--	--	4500 NJ	--	--
NAPHTHO[2,3,B]NORBORNADIENE	--	--	--	--	--	--	--	--	5900 NJD	--	--
9,10-ANTHRACENEDIONE	720 NJ	--	--	--	--	--	--	--	--	--	--
PHENYL,2,4-BIS(1-METHYL-1-PHENYLETHYL)-	780 NJ	--	--	--	--	--	--	--	--	--	--
PHENOL,2,4-BIS(1,1-DIMETHYLETHYL)-	--	--	370 NJ	--	--	--	--	--	--	--	--
OCTABENZONE	--	--	890 NJ	--	--	--	--	--	--	--	--
NAPHTHALENE,1,2-DIMETHYL-	--	--	--	580 NJ	--	--	--	--	--	--	--
7H-BENZ[DE]ANTHRACEN-7-ONE	--	--	--	--	--	--	--	--	--	--	--
BENZ[A]ANTHRACENE,1-METHYL-	--	--	--	--	1800 NJ	--	--	--	--	--	--
1-BROMO-11-IODOUNDECANE	--	--	--	--	1400 NJ	--	--	--	--	--	--
HYDRAZINE,1-(3-NITROPHENYLMETHYLENE)-2-[	--	--	--	--	--	--	--	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg

SITE NAME: CARLSTROM LANDFILL
ILD NUMBER: 980497721

TABLE E-3
SAMPLE SUMMARY
(Drinking Water)

Sampling Location :	G203	G201	G202	G204	G205	G501	MCL's
Date Sampled :	3/30/2004 (Background)	3/30/2004	3/30/2004	3/30/2004	5/4/2004	3/30/2004	
Volatile Compound:							
Chloromethane	--	--	--	--	0.16 J	--	--
1,1,1-Trichloroethane	--	--	--	0.35 J	--	--	200
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Semivolatile Compound:							
Di-n-butylphthalate	--	1.7 J	1.5 J	--	--	--	--
bis(2-Ethylhexyl)phthalate	--	--	--	--	--	7.6	--
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Pesticide/PCB Compound:							
None Detected	--	--	--	--	--		--
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Tentatively Identified Compounds:							
None Detected	--	--	--	--	--	--	--
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Inorganics:							
Aluminum	--	--	28.2 J,K	--	39 J	45.7 J,K	--
Barium	20.2	49.5	49.2	21.8	61.2	32.3	2000
Calcium	51,600	135,000	134,000	125,000	207000	86,100	--
Chromium	13.5 L	34.1	33.9	30.9	44.5	10.3 L	100
Cobalt	--	--	--	1.8 L,J	1.2 J,L	--	--
Copper	23.5	22.5	19.6	15.1	88.3	6.7	--
Iron	2,160	27.8 J,K	18.9 J,K	5.6 J,K	1070	340	1000
Lead	--	--	--		6.0	--	50
Magnesium	24,500	89,500	82,700	83,900	118000	21,700	--
Manganese	18.4	4.3	4.5	6.8	8.1	6.5	150
Nickel	1.0 L,J	2.8 L,J	2.7 L,J	11.8	6.3 J	2.5 L,J	100
Potassium	19,100 L	6,070 L,J	5,620 L,J	6,270 L	14200	15,800 L	--
Sodium	92,800	46,800	46,500	38,500	247000	84,300	--
Zinc	1,400	38.7	46.1	17.5	53.7	32.6	5000
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

SITE NAME: CARLSTROM LANDFILL
ILD NUMBER: 980497721

TABLE E-4
Sample Summary
(Groundwater)

Sampling Location :	G101		G102	G103		G104		MCL's
Date Sampled :	5/4/2004 (Background)		5/4/2004	5/4/2004		5/4/2004		
Volatile Compound								
ACETONE	--		--	--		15	J	--
CARBON DISULFIDE	--		--	--		2	J	--
	ug/L		ug/L	ug/L		ug/L		ug/L
Semivolatile Compound								
CAPROLACTAM	--		--	--		1	J	--
	ug/L		ug/L	ug/L		ug/L		ug/L
Pesticide/PCB Compound								
None Detected	--		--	--		--		--
	ug/L		ug/L	ug/L		ug/L		ug/L
Tentatively Identified Compounds								
CYCLOPENTASILOXANE-DECAMETH	--		--	47	NJ	--		--
CYCLOPENTASILOXANE-DODECAME	--		--	16	NJ	--		--
DROMETRIZOLE	--		--	--		34	NJ	--
2-FLUORO-6-NITROPHENOL	--		--	--		4	NJ	--
PHENOL,2-FLUORO-4-NITRO-	--		--	--		7	NJ	--
	ug/L		ug/L	ug/L		ug/L		ug/L
Inorganics								
ALUMINUM	218	J+	--	--		1620		--
	--		--	--		--		--
BARIUM	--		--	--		577		2000
	--		--	--		--		2000
CALCIUM	175000		--	199000		755000		--
	159000		--	198000		--		--
CHROMIUM	13.5		--	--		29.9		100
	--		--	--		--		100
COPPER	32.6		--	--		--		--
	--		--	--		--		--
IRON	2120		--	187	J+/-	3380		1000
	--		--	152	J+/-	--		1000
LEAD	--		--	--		22.9		
	--		--	--		--		
MAGNESIUM	84200		--	116000		49500		--
	76800		--	116000		--		--
MANGANESE	76.4		--	--		223		150
	--		--	--		--		150
NICKEL	9	J	--	6.1	J	22.5	J	100
	6.7	J	--	6.2	J	--		100
POTASSIUM	7660	J	--	21400	J	14300	J	--
	6990	J	--	21800	J	--		--
SODIUM	201000	J	--	311000	J	100000	J	--
	192000	J	--	314000	J	--		--
ZINC	--		--	--		75.2		5000
	--		--	--		--		5000
	ug/L		ug/L	ug/L		ug/L		ug/L

NOTE: Shaded inorganic substances were analyzed for for Total Metals, unshaded inorganic substances were analyzed for Dissolved Metals.

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chlorde	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroehtene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis (2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene

2-Methylnaphthalene	Di-n-Butylphthalate
1,2,4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl)Phthalate
bis(2-chloroethoxy)Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)Anthracene
2-Chloronaphthalene	3-3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b)Fluoranthene
3-Nitroaniline	Benzo(k)Fluoranthene
Acenaphthene	Benzo(a)Pyrene
Dibenzofuran	Ideno(1,2,3-cd)Pyrene
Dimethyl Phthalate	Dibenz(a,h)Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i)Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	

Pesticide/PCB Target Compounds

alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlordane
Heptachlor	gamma-Chlordane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

Inorganic Target Compounds

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobolt	Vanadium
Copper	Zinc
Iron	Cyanide
Lead	Sulfide
Magnesium	

DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
U	Compound was tested for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered.	Analyte was analyzed for but not detected.
J	Estimated value. Used when estimating a concentration for tentatively identified compounds (TICS) where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.	Estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.
C	This flag applies to pesticide results where the identification is confirmed by GC/MS.	Method qualifier indicates analysis by the Manual Spectrophotometric method.
B	Analyte was found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	The reported value is less than the CRDL but greater than the instrument detection limit (IDL).
D	Identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor as in the "E" flag, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values are flagged with the "D" flag.	Not used.
E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses must be reported on separate Forms I. The Form I for the diluted sample must have the "DL" suffix appended to the sample number.	The reported value is estimated because of the presence of interference.
A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory.	Method qualifier indicates analysis by Flame Atomic Absorption (AA).
M	Not used.	Duplicate injection (a QC parameter not met).

N	Not used	Spiked sample (a QC parameter not met).
S	Not used.	The reported value was determined by the Method of Standard Additions (MSA).
W	Not used.	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance.
*	Not used.	Duplicate analysis (a QC parameter not within control limits).
+	Not used.	Correlation coefficient for MSA (a QC parameter) is less than 0.995.
P	Not used.	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy.
CV	Not used.	Method qualifier indicates analysis by Cold Vapor AA.
AV	Not used.	Method qualifier indicates analysis by Automated Cold Vapor AA.
AS	Not used.	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry.
T	Not used.	Method qualifier indicates Titrimetric analysis.
NR	The analyte was not required to be analyzed.	The analyte was not required to be analyzed.
R	Rejected data. The QC parameters indicate that the data is not usable for any purpose.	Rejected data. The QC parameters indicate that the data is not usable for any purpose.

DATE: May 26, 2004

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Carlstrom Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
32724	Envirosystems	19	E0020	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

MAY 2 8 2004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on May 3, 2004

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Carlstrom Landfill (IL)

CASE NUMBER: 32724 SDG NUMBER: E0020

umber and Type of Samples: 19 Soils

Sample Numbers: E0020 - E0033, E0035 - E0039

Laboratory: Envirosystems Hrs. for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number : 32724 SDG Number: E0020
'te Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nineteen (19) soil samples, numbered *E0020* through *E0033* and *E0035* through *E0039* were collected *March 30 - 31, 2004*. The lab received the samples on *April 1, 2004* in good condition. All samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW *OLM04.3*.

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

The following pesticide samples are associated with a continuing PEM in which the percent difference between the nominal and calculated amounts for a PEM compound is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ".

alpha-BHC, beta-BHC, gamma-BHC (Lindane), Endrin, 4,4-DDT
E0033MS, E0033MSD, PBLK95

3. CALIBRATION

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane
E0020, E0021, E0022, E0029DL, E0030RE, E0035RE, E0038RE, E0039, VBLKFB, VBLKFZ, VHBLKFB

Chloroethane, 2-Butanone
E0020, E0021, E0022, VBLKFZ

Trichlorofluoromethane, Carbon Tetrachloride
E0029DL, E0030RE, E0035RE, E0038RE, E0039, VBLKFB, VHBLKFB

Acetone, 2-Hexanone
E0020, E0021, E0022, E0023RE, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, VBLKFA, VBLKFZ

Methylcyclohexane
E0023RE, E0027, E0028, E0029, E0029DL, E0030, E0030RE, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0035RE, E0036, E0037, E0038, E0038RE, E0039, VBLKFA, VBLKFB, VHBLKFB

1,2,4-Trichlorobenzene
E0020, E0021, E0022, E0023, E0023RE, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, VBLKF7, VBLKFA, VBLKFZ

The following volatile samples are associated with a continuing calibration in which a SMC/DMC

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

exceeded percent difference (%D) criteria. Hits and non-detects are not qualified based on %D and RRF data alone.

Toluene-d8, 1,2-Dichloroethane-d4
E0020, E0021, E0022, E0023, E0023RE, E0024, E0025, E0026, E0027, E0028, E0029, E0029DL, E0030, E0030RE, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0035RE, E0036, E0037, E0038, E0038RE, E0039, VBLKF7, VBLKFA, VBLKFB, VBLKFZ, VHBLKFB

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

3-Nitroaniline, 4-Nitroaniline, 3,3-Dichlorobenzidine
E0020, E0021, E0022, E0022DL, E0023, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039, SBLK39

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Phenol, bis(2-Chloroethyl)ether
E0020, E0021, E0022, E0022DL, E0023, E0025, E0027, E0032, E0038, E0039

2,2-oxybis(1-Chloropropane), N-Nitroso-di-n-propylamine, Hexachlorobutadiene, 2-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline, 3,3-Dichlorobenzidine
E0020, E0021, E0022, E0022DL, E0023, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039, SBLK39

Hexachlorocyclopentadiene
E0024, E0026, E0028, E0029, E0030, E0031, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, SBLK39

The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Hits and non-detects are not qualified based on %D and RRF data alone.

Phenol-d5
E0020, E0021, E0022, E0022DL, E0023, E0025, E0027, E0032, E0038, E0039

The RT of the analyte in the midpoint INDA/INDB fell outside the RT window established during the initial calibration. Hits are qualified "NJ". Non-detects are qualified "UJ".

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYST

beta-BHC, delta-BHC, Aldrin
E0020, E0021, E0022, E0023, E0033, E0035, E0036, E0037, E0038, E0039, PBLK93

The percent difference between the nominal and the calculated amount of an analyte in the midpoint INDA/INDB exceeded criteria. Hits are qualified "J" and non-detects are qualified "UJ".

alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Aldrin
E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033MS, E0033MSD, PBLK95

Heptachlor
E0020, E0021, E0022, E0023, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039, PBLK93, PBLK95

Methoxychlor
E0020, E0021, E0022, E0023, E0033, E0035, E0036, E0037, E0038, E0039, PBLK93

The RT of a pesticide surrogate in the midpoint INDA/INDB fell outside the RT window established during the initial calibration. Hits and non-detects are not qualified for this problem.

E0020, E0021, E0022, E0023, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039, PBLK93, PBLK95

4. BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" or "UJ" and non-detects are not flagged.

Methylene Chloride
E0035RE

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" or "UJ" and non-detects are not flagged.

Acetone
E0025, E0026, E0030RE

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

Methylene Chloride
E0020, E0021, E0022, E0030, E0030RE, E0032, E0033MS, E0033MSD, E0035, E0037, E0038, E0038RE, E0039, VHBLKFB

The following volatile samples are associated with a contaminated instrument blank. Results are biased high. Hits and non-detects are not flagged.

Acetone
E0030, E0033, E0033MS, E0033MSD, E0036, E0037

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Di-n-butylphthalate
E0026, E0031, E0033, E0033MSD, E0036, E0037, E0038

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have system monitoring compound recoveries above the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E0023, E0023RE, E0035RE

The following volatile samples have one or more system monitoring compound recovery values below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ".

E0030, E0035RE, E0038, E0038RE

The following diluted semivolatile samples have surrogate recovery values less than ten percent. Hits and non-detects are not flagged.

E0022DL

The following pesticide samples have surrogate RTs outside the RT window established during the initial calibration. Hits and non-detects are not flagged for this problem.

E0020, E0021, E0023, E0036

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYST

E0020, E0021, E0022, E0023, E0024, E0026, E0027, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039

The following pesticide method blanks have surrogate RT outside the RT window established during the initial calibration. Hits and non-detects are not flagged for this problem.

PBLK93

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. The presence of 4-Nitrophenol in the unspiked sample, E0033, is qualified "J" and non-detects are not flagged unless otherwise qualified for another problem.

E0033MSD
4-Nitrophenol

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. The presence of 4,4-DDT in the unspiked sample, E0033, is qualified "J" and non-detects are not flagged.

E0033MS, E0033MSD
4,4-DDT

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates; however there are two pairs of samples reported on the Chain-of-Custody with the same collection dates and time, samples E0020/E0021 and E0036/E0037. Results are not qualified based upon the results of the field blank or field duplicates. Results are summarized in the following table:

Analytes	E0020	E0021	E0036	E0037
	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Acetone		6 J	5 J	6 J
# of Volatile TICs	6	16	2	1

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

Analytes	E0020	E0021	E0036	E0037
	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Acenaphthylene		380 J		
Acenaphthene		380 J		
Fluorene		480 J		
Phenanthrene	1500 J	2600	83 J	87 J
Anthracene	530 J	1100 J		
Fluoranthene	4000	5300	200 J	240 J
Pyrene	4000	6100	260 J	330 J
Benzo(a)anthracene	2000 J	3000	82 J	110 J
Chrysene	2800	3400	140 J	180 J
bis(2-Ethylhexyl)phthalate	560 J	420 J	59 J	61 J
Benzo(b)fluoranthene	2000 J	2300 J	130 J	180 J
Benzo(k)fluoranthene	1700 J	2000 J	140 J	150 J
Benzo(a)pyrene	1900 J	2300 J	150 J	220 J
Indeno(1,2,3-cd)pyrene	1300 J	1400 J	120 J	160 J
Dibenzo(a,h)anthracene	530 J	580 J	57 J	49 J
Benzo(g,h,i)perylene	370 J	520 J		
# of Semivolatile TICs	19	27	21	19
alpha-BHC	4.0 J	3.8 J		
Aldrin	2.6 NJ	2.8 NJ		
Heptachlor epoxide	3.9 J	4.5 J		
Endrin	7.3 J	6.6 J		
4,4'-DDD	5.7 J	6.3 J		
Endosulfan sulfate		12 J		
4,4'-DDT			9.7 J	5.1 J

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

Case Number : 32724 SDG Number: E0020
te Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYST6

8. INTERNAL STANDARDS

The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

E0023, E0023RE, E0029, E0030RE, E0035, E0035RE, E0038, E0038RE
4-Methyl-2-pentanone, Toluene, Tetrachloroethene, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0021, E0028, E0030, E0033, E0033MS, E0033MSD, E0036, E0037, VBLKF7
Acetone

E0022
Acetone, Chlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E0024, E0025, E0026, VBLKFA, VBLKFZ
Methylene Chloride

E0029
Cyclohexane, Methylcyclohexane, Toluene, Isopropylbenzene

E0035RE
cis-1,2-Dichloroethane

VBLKFB
Acetone, Methylene Chloride

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

E0020
Phenanthrene, Anthracene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0021
Acenaphthylene, Acenaphthene, Fluorene, Anthracene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0022
Naphthalene, 2-Methylnaphthalene, Acenaphthene, Dibenzofuran

E0022DL
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0023
Fluoranthene, Pyrene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo (g,h,i) perylene

E0024
Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0026
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene

E0027
Anthracene, Carbazole, bis(2-Ethylhexyl)phthalate, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0028
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

E0029
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

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Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYST

E0030
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

E0031
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Butylbenzylphthalate, bis(2-Ethylhexyl)phthalate, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0032
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene

E0033
Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0033MS
Fluoranthene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

E0033MSD
Phenanthrene, Fluoranthene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene

E0035
2-Methylnaphthalene, Acenaphthylene, Phenanthrene, Anthracene, Carbazole, Pyrene, Benzo(a)anthracene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene

E0036, E0037
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene

E0038
Acenaphthylene, Phenanthrene, Anthracene, Butylbenzylphthalate, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

E0039
Phenanthrene, Anthracene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate,

Case Number : 32724 SDG Number: E0020
e Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo (a,h) - anthracene, Benzo (g,h,i) perylene

SBLK39
Diethylphthalate, Di-n-butylphthalate

The following pesticide samples have analytes for which the percent difference between columm results exceeds primary criteria. Hits are qualified "J".

E0020
alpha-BHC, Aldrin, Heptachlor epoxide, Endrin, 4,4-DDD

E0021
alpha-BHC, Aldrin, Endrin, 4,4-DDD, Endosulfan sulfate

E0022
alpha-BHC, beta-BHC, Dieldrin, Endrin, Endosulfan II, 4,4-DDD, Endosulfan sulfate, 4,4-DDT

E0023
Heptachlor, Endosulfan I, Endrin, Methoxychlor, Endrin aldehyde, alpha-Chlordane

E0024
alpha-Chlordane, gamma-Chlordane

E0025
4,4-DDT

E0026
Endosulfan sulfate, gamma-Chlordane

E0027
Heptachlor epoxide, Dieldrin, 4,4-DDE, Endosulfan sulfate

E0029
Aroclor-1254, Aroclor-1260

E0031
Dieldrin, Endosulfan sulfate, 4,4-DDT, gamma-Chlordane

E0032
Dieldrin, Endosulfan sulfate, Endrin aldehyde, gamma-Chlordane

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

Case Number : 32724 SDG Number: E0020
te Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYST.

E0033
4,4-DDE, Endrin, alpha-Chlordane

E0033MS
Aldrin, 4,4-DDE, Endosulfan sulfate, alpha-Chlordane, Aroclor-1260

E0033MSD
4,4-DDE, alpha-Chlordane, gamma-Chlordane, Aroclor-1254, Aroclor-1260

E0035
Heptachlor, Heptachlor epoxide, Dieldrin, 4,4-DDE, Endrin, Endosulfan II, 4,4-DDD, 4,4-DDT, gamma-Chlordane

E0036, E0037
4,4-DDT

E0038
Heptachlor epoxide, Dieldrin, 4,4-DDE, 4,4-DDD, 4,4-DDT, gamma-Chlordane

E0039
Heptachlor epoxide, Dieldrin, 4,4-DDE, Endrin, gamma-Chlordane

The following pesticide samples reported Gel Permeation Criteria (GPC) recoveries above the upper criteria limit. Hits are qualified "J" and non-detects are not qualified unless qualified for another problem.

Endrin
E0020, E0021, E0022, E0023, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039, PBLK93, PBLK95

Heptachlor, Dieldrin
E0033MS, E0033MSD, PBLK95

The following pesticide samples reported Gel Permeation Criteria (GPC) recoveries above the upper criteria limit. The percent recovery was greater than 120%; therefore, detects are qualified "J" and unless qualified for another problem.

Endrin
E0033MS, E0033MSD, PBLK95

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

Case Number : 32724 SDG Number: E0020
e Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYSTEMS

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0020, E0021, E0022, E0023, E0023RE, E0024, E0025, E0026, E0027, E0028, E0029, E0029DL, E0030, E0030RE, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0035RE, E0036, E0037, E0038, E0038RE, E0039, VBLKF7, VBLKFA, VBLKFB, VBLKFZ, VHBLKFB

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0020, E0021, E0022, E0022DL, E0023, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039, SBLK39

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0020, E0021, E0022, E0023, E0024, E0025, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0033MS, E0033MSD, E0035, E0036, E0037, E0038, E0039, PBLK93, PBLK95

The following volatile samples had one or more analytes whose concentration exceeded the instrument's calibration range. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

E0029
Acetone

The following semivolatile samples had one or more analytes whose concentration exceeded the instrument's calibration range. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

Case Number : 32724 SDG Number: E0020
Site Name: CARLSTROM LANDFILL (IL) Laboratory: ENVIROSYST

E0022
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(a)pyrene

The following semivolatile sample improperly reported a semivolatile target analyte as a TIC; therefore, the presence of the analyte in the sample is qualified "J" and a non-detect is qualified "UJ".

E0021 Cas No. 205-99-2 Benz[e]acephenanthrylene (i.e. Benzo(b)fluoranthene)

Both Gel Permeation Chromatography (GPC) calibration checks contained one or more analytes with a %recovery outside criteria. The laboratory proceeded to analyze the pesticide samples under the unacceptable Gel Permeation Criteria; therefore the EPA Project Officer should be notified.

Reviewed By: Allison Harvey/Alion - ESAT
Date: May 25, 2004

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0020

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X207
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	9.79	12	J
	UNKNOWN	10.01	18	J
	UNKNOWN	11.45	150	J
	UNKNOWN	12.41	240	J
	UNKNOWN	12.58	260	J
	UNKNOWN	13.42	250	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0020

Sample Type: Routine Sample
Lab ID: ENVSYS
ase No.: 32724
DG No.: E0020

Location: X207
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	19.96	570	J
	UNKNOWN	20.66	1000	J
	UNKNOWN	21.11	710	J
	UNKNOWN	21.20	1100	J
	UNKNOWN	21.53	550	J
	UNKNOWN	21.75	560	J
	UNKNOWN	23.39	640	J
33543316	FLUORANTHENE, 2-METHYL-	23.43	940	NJ
	UNKNOWN	24.90	680	J
	UNKNOWN	25.01	550	J
	UNKNOWN	25.34	670	J
	UNKNOWN	26.84	710	J
	UNKNOWN	27.84	820	J
	UNKNOWN	28.14	740	J
192972	BENZO[E]PYRENE	28.48	1500	NJ
	UNKNOWN	30.23	700	J
	UNKNOWN	30.75	730	J
	UNKNOWN	31.46	710	J
	UNKNOWN	31.48	880	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0021
Lab ID:	ENVSYS	Location:	X208
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	8.24	16	J
	UNKNOWN CYCLOALKANE	8.44	16	J
	UNKNOWN	8.90	17	J
	UNKNOWN	9.16	16	J
	UNKNOWN	9.35	28	J
	UNKNOWN	9.43	20	J
	UNKNOWN	9.46	29	J
	UNKNOWN	9.79	37	J
	UNKNOWN	10.01	90	J
	UNKNOWN ALKANE	10.30	120	J
	UNKNOWN CYCLOALKANE	10.54	30	J
138863	LIMONENE	10.57	94	NJ
	UNKNOWN	10.76	54	J
	UNKNOWN	11.04	260	J
	UNKNOWN	11.32	150	J
	UNKNOWN	11.54	310	J
	UNKNOWN	11.96	670	J
	UNKNOWN	12.58	940	J
	UNKNOWN	13.42	780	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

		Sample No.:	E0021
Sample Type:	Routine Sample		
Lab ID:	ENVSYS	Location:	X208
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	15.12	880	J
	UNKNOWN	17.36	800	J
	UNKNOWN	17.99	1300	J
	UNKNOWN	19.96	1100	J
613127	ANTHRACENE, 2-METHYL-	20.38	770	NJ
949417	1H-CYCLOPROPA[L]PHENANTHRENE,1A,9B-DIHYD	20.45	870	NJ
	UNKNOWN	20.65	1800	J
	UNKNOWN	20.71	880	J
	UNKNOWN	21.08	840	J
	UNKNOWN	21.11	1000	J
	UNKNOWN	21.20	2600	J
100019714	4B,8-DIMETHYL-2-ISOPROPYLPHENANTHRENE, 4	21.53	3000	NJ
781431	9,10-DIMETHYLANTHRACENE	21.75	1000	NJ
	UNKNOWN	22.01	770	J
69009901	1,1'-BIPHENYL, BIS(1-METHYLETHYL)-	22.29	11000	NJ
	UNKNOWN	23.41	3000	J
	UNKNOWN	24.03	790	J
	UNKNOWN	24.82	800	J
	UNKNOWN	25.01	780	J
	UNKNOWN	25.78	850	J
	UNKNOWN	26.48	910	J
	UNKNOWN	26.83	850	J
	UNKNOWN	27.47	1000	J
	UNKNOWN	27.85	1100	J
	UNKNOWN	31.14	1200	J
	UNKNOWN	31.49	1300	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

		Sample No.:	E0022
Sample Type:	Routine Sample		
Lab ID:	ENVSYS	Location:	X209
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	9.79	47	J
	UNKNOWN	10.33	83	J
	UNKNOWN	12.09	980	J
	UNKNOWN	12.41	530	J
	UNKNOWN	12.88	1100	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

		Sample No.:	E0022
Sample Type:	Routine Sample		
Lab ID:	ENVSYS	Location:	X209
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	17.36	3000	J
7372885	DIBENZOTHIOPHENE, 4-METHYL-	19.97	5700	NJ
949417	1H-CYCLOPROPA[L]PHENANTHRENE,1A,9B-DIHYD	20.38	4400	NJ
832699	PHENANTHRENE, 1-METHYL-	20.45	5000	NJ
949417	1H-CYCLOPROPA[L]PHENANTHRENE,1A,9B-DIHYD	20.54	5200	NJ
	UNKNOWN	20.66	11000	J
100021087	1A,9B-DIHYDRO-1H-CYCLOPROPA[A]ANTHRACENE	20.70	5700	NJ
	UNKNOWN	21.12	8600	J
	UNKNOWN	21.21	14000	J
	UNKNOWN	21.54	21000	J
781920	ANTHRACENE, 1,4-DIMETHYL-	21.76	6400	NJ
	UNKNOWN	21.82	5200	J
	UNKNOWN	22.30	11000	J
2381217	PYRENE, 1-METHYL-	23.18	4900	NJ
33543316	FLUORANTHENE, 2-METHYL-	23.44	12000	NJ
243174	11H-BENZO[B]FLUORENE	23.59	5600	NJ
2381217	PYRENE, 1-METHYL-	23.68	5600	NJ
3353126	PYRENE, 4-METHYL-	23.90	5600	NJ
2381217	PYRENE, 1-METHYL-	23.96	4400	NJ
9350	BENZO[B]NAPHTHO[2,1-D]THIOPHENE	24.92	5500	NJ
195197	BENZO[C]PHENANTHRENE	25.01	5200	NJ
25732745	3,4-DIHYDROCYCLOPENTA(CD)PYRENE (ACEPYRE	25.78	6000	NJ
1705846	TRIPHENYLENE, 2-METHYL-	26.48	8500	NJ
3351288	CHRYSENE, 1-METHYL-	26.57	4500	NJ
	UNKNOWN	26.71	5200	J
198550	PERYLENE	28.16	5900	NJ
192972	BENZO[E]PYRENE	28.50	13000	NJ
192972	BENZO[E]PYRENE	28.77	4200	NJ
	UNKNOWN	31.50	9000	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0022DL

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X209
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	19.97	5800	JD
832699	PHENANTHRENE, 1-METHYL-	20.38	4700	NJD
2531842	PHENANTHRENE, 2-METHYL-	20.45	5200	NJD
2531842	PHENANTHRENE, 2-METHYL-	20.54	5000	NJD
	UNKNOWN	20.66	11000	JD
100021052	NAPHTHO[2,3-B]NORBORNADIENE	20.71	5900	NJD
	UNKNOWN	21.12	9000	JD
	UNKNOWN	21.21	14000	JD
100019714	4B,8-DIMETHYL-2-ISOPROPYLPHENANTHRENE, 4	21.54	22000	NJD
3674666	PHENANTHRENE, 2,5-DIMETHYL-	21.75	6300	NJD
	UNKNOWN	21.82	5500	JD
	UNKNOWN	22.30	11000	JD
2381217	PYRENE, 1-METHYL-	23.18	5500	NJD
33543316	FLUORANTHENE, 2-METHYL-	23.44	13000	NJD
	UNKNOWN	23.59	6800	JD
2381217	PYRENE, 1-METHYL-	23.67	6000	NJD
	UNKNOWN	23.84	4700	JD
3353126	PYRENE, 4-METHYL-	23.90	6300	NJD
2381217	PYRENE, 1-METHYL-	23.96	4700	NJD
9350	BENZO[B]NAPHTHO[2,1-D]THIOPHENE	24.91	6300	NJD
	UNKNOWN	25.00	5100	JD
	UNKNOWN	25.77	5800	JD
	UNKNOWN	26.48	8100	JD
3351313	CHRYSENE, 3-METHYL-	26.57	4600	NJD
	UNKNOWN	26.70	5500	JD
	UNKNOWN	26.80	4400	JD
	UNKNOWN	28.15	7200	JD
198550	PERYLENE	28.50	14000	NJD
	UNKNOWN	31.49	11000	JD

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0023

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X103
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	1.84	13	J
183	DIMETHYL SULFIDE	2.31	47	NJ
	UNKNOWN	3.39	19	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0023

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X103
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	12.60	2200	J
	UNKNOWN	14.02	1200	J
	UNKNOWN	21.74	1200	J
69009901	1,1'-BIPHENYL, BIS(1-METHYLETHYL)-	22.29	3400	NJ
	UNKNOWN	25.34	1300	J
	UNKNOWN	26.79	1500	J
	UNKNOWN	27.86	1400	J
	UNKNOWN	28.01	1500	J
	UNKNOWN	28.25	1200	J
	UNKNOWN	28.29	1800	J
	UNKNOWN	28.37	1100	J
	UNKNOWN	28.50	1100	J
	UNKNOWN	28.57	1100	J
	UNKNOWN	28.63	1700	J
	UNKNOWN	28.91	1700	J
	UNKNOWN	29.22	1900	J
	UNKNOWN	29.33	1200	J
	UNKNOWN	29.66	1400	J
	UNKNOWN	29.67	1400	J
	UNKNOWN	29.83	3200	J
	UNKNOWN	29.89	1400	J
	UNKNOWN	30.23	1700	J
	UNKNOWN	30.51	3800	J
	UNKNOWN	31.15	3200	J
	UNKNOWN	31.39	1700	J
	UNKNOWN	31.51	1400	J
	UNKNOWN	32.05	1400	J
	UNKNOWN	34.39	1300	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0023RE

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X103
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
75183	DIMETHYL SULFIDE	2.31	21	NJ
	UNKNOWN ALKANE	3.38	32	J
	UNKNOWN	7.90	11	J
	UNKNOWN	8.88	8	J
	UNKNOWN	9.43	40	J
556672	CYCLOTETRASILOXANE, OCTAMETHYL-	9.89	17	NJ
	UNKNOWN	10.36	9	J
	UNKNOWN	13.95	9	J
	UNKNOWN	14.05	11	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0024

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X104
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	8.34	1800	JB
	UNKNOWN	9.33	870	JB
541026	CYCLOPENTASILOXANE, DECAMETHYL-	10.79	110	NJ
	UNKNOWN	20.68	96	J
	UNKNOWN	26.85	140	J
	UNKNOWN	27.86	160	J
	UNKNOWN	27.87	150	J
	UNKNOWN	28.33	120	J
	UNKNOWN	28.50	110	J
	UNKNOWN	28.91	99	J
	UNKNOWN	29.87	96	J
	UNKNOWN	30.77	100	J
	UNKNOWN	31.00	170	J
	UNKNOWN	31.17	150	J
	UNKNOWN	31.49	97	J
	UNKNOWN	32.04	150	J
	UNKNOWN	33.61	180	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0025

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X105
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	9.14	890	J
	UNKNOWN	27.83	850	J
	UNKNOWN	29.19	450	J
	UNKNOWN	29.21	510	J
	UNKNOWN	29.22	600	J
	UNKNOWN	30.74	510	J
	UNKNOWN	33.53	450	J
	UNKNOWN	33.56	680	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0026

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X106
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
75183	DIMETHYL SULFIDE	2.31	27	NJ

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0026
Lab ID:	ENVSYS	Location:	X106
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	7.58	1600	JB
	UNKNOWN	8.34	3200	JB
	UNKNOWN	9.16	220	J
	UNKNOWN	9.32	2900	JB
91645	2H-1-BENZOPYRAN-2-ONE	15.14	140	NJ
	UNKNOWN	16.81	140	J
57103	N-HEXADECANOIC ACID	20.68	370	NJ
	UNKNOWN	22.73	170	J
	UNKNOWN	25.35	350	J
53057537	1,21-DOCOSADIENE	27.87	1200	NJ
	UNKNOWN	29.23	300	J
	UNKNOWN	30.22	380	J
	UNKNOWN	31.16	530	J
	UNKNOWN	31.35	750	J
	UNKNOWN	31.47	230	J
100021420	STIGMASTEROL, 22,23-DIHYDRO-	32.03	810	NJ
	UNKNOWN	33.42	530	J
	UNKNOWN	33.59	530	J

Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0027

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X201
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	9.14	530	J
	UNKNOWN	20.65	900	J
84651	9,10-ANTHRACENEDIONE	21.17	720	NJ
33543316	FLUORANTHENE, 2-METHYL-	23.44	990	NJ
239350	BENZO[B]NAPHTHO[2,1-D]THIOPHENE	24.90	730	NJ
	UNKNOWN	25.01	640	J
2772454	PHENOL, 2,4-BIS(1-METHYL-1-PHENYLETHYL)-	25.72	780	NJ
	UNKNOWN	25.76	640	J
	UNKNOWN	26.47	560	J
	UNKNOWN	26.84	620	J
	UNKNOWN	28.14	900	J
	UNKNOWN	28.49	1600	J
	UNKNOWN	28.89	630	J
	UNKNOWN	29.33	740	J
	UNKNOWN	29.36	640	J
	UNKNOWN	29.82	760	J
	UNKNOWN	30.49	730	J
	UNKNOWN	31.36	720	J
	UNKNOWN	31.37	740	J
	UNKNOWN	31.47	630	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0028

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X107
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
75183	DIMETHYL SULFIDE	2.31	57	NJ
	UNKNOWN	3.74	10	J
	UNKNOWN	7.91	9	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Sample No.: E0028
Location: X107
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	8.33	1700	JB
	UNKNOWN	9.16	300	J
	UNKNOWN	9.32	1600	JB
	UNKNOWN	14.72	210	J
271896	BENZOFURAN	15.14	130	NJ
57103	N-HEXADECANOIC ACID	20.68	210	NJ
511159	2-PHENANTHRENOL, 4B,5,6,7,8,8A,9,10-OCTA	24.17	650	NJ
	UNKNOWN	24.25	130	J
	UNKNOWN	25.35	110	J
	UNKNOWN	27.87	330	J
	UNKNOWN	28.31	270	J
	UNKNOWN	28.34	220	J
	UNKNOWN	28.49	160	J
	UNKNOWN	28.90	140	J
	UNKNOWN	29.23	440	J
	UNKNOWN	29.86	180	J
	UNKNOWN	30.23	300	J
	UNKNOWN	31.17	380	J
	UNKNOWN	31.47	160	J
	UNKNOWN	32.04	580	J
	UNKNOWN	32.09	210	J
1058613	STIGMAST-4-EN-3-ONE	33.60	350	NJ

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0029
Lab ID:	ENVSYS	Location:	X108
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	1.85	85	J
	UNKNOWN	2.45	930	J
	UNKNOWN	4.26	20	J
	UNKNOWN CYCLOALKANE	7.68	16	J
	UNKNOWN	8.14	31	J
	UNKNOWN CYCLOALKANE	8.19	39	J
	UNKNOWN CYCLOALKANE	8.44	36	J
	UNKNOWN	9.16	39	J
	UNKNOWN	9.35	35	J
	UNKNOWN	9.42	88	J
	UNKNOWN	9.88	83	J
	UNKNOWN	10.19	71	J
	UNKNOWN	10.69	14	J
	UNKNOWN	10.93	29	J
	UNKNOWN	11.24	14	J
25155151	BENZENE, METHYL(1-METHYLETHYL)-	11.62	14	NJ
	UNKNOWN	11.96	14	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0029

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X108
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
118650	BICYCLO[7.2.0]UNDEC-4-ENE, 4,11,11-TRIME	15.76	1100	NJ
	UNKNOWN	19.73	720	J
	UNKNOWN	20.35	3300	J
112801	OLEIC ACID	22.42	1500	NJ
	UNKNOWN	22.90	4300	J
	UNKNOWN	24.62	1400	J
	UNKNOWN	25.72	1800	J
	UNKNOWN	27.85	1200	J
	UNKNOWN	28.89	940	J
	UNKNOWN	30.06	860	J
	UNKNOWN	31.15	1100	J
	UNKNOWN	32.05	2500	J
	UNKNOWN	32.12	2200	J
	UNKNOWN	32.15	2600	J
	UNKNOWN	32.22	780	J
	UNKNOWN	32.79	13000	J
	UNKNOWN	33.45	800	J
	UNKNOWN	33.61	810	J
	UNKNOWN	34.40	11000	J
	UNKNOWN	34.55	3000	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0030

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X109
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
75183	DIMETHYL SULFIDE	2.31	54	NJ
	UNKNOWN	3.40	31	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0030
Lab ID:	ENVSYS	Location:	X109
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	8.25	120	J
	UNKNOWN	8.34	1300	JB
	UNKNOWN	9.32	1600	JB
	UNKNOWN	25.57	110	J
	UNKNOWN	27.86	170	J
	UNKNOWN	29.22	170	J
	UNKNOWN	29.57	170	J
	UNKNOWN	31.13	98	J
	UNKNOWN	32.05	280	J
	UNKNOWN	32.12	120	J
	UNKNOWN	32.14	100	J
	UNKNOWN	33.41	94	J
	UNKNOWN	33.43	100	J
	UNKNOWN	33.58	200	J
	UNKNOWN	33.60	160	J
20475869	URS-12-EN-24-OIC ACID, 3-OXO-, METHYL ES	34.23	270	NJ

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0030RE
Lab ID:	ENVSYS	Location:	X109
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
556672	CYCLOTETRASILOXANE, OCTAMETHYL-	9.88	27	NJ
	UNKNOWN	10.52	8	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0031

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X203
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	9.32	1300	JB
96764	PHENOL, 2,4-BIS(1,1-DIMETHYLETHYL)-	15.86	370	NJ
	UNKNOWN	20.66	360	J
	UNKNOWN	20.67	360	J
2381217	PYRENE, 1-METHYL-	23.44	520	NJ
	UNKNOWN	23.73	490	J
	UNKNOWN	25.25	840	J
	UNKNOWN	26.12	420	J
1705846	TRIPHENYLENE, 2-METHYL-	26.48	480	J
	UNKNOWN	26.85	430	J
	UNKNOWN	27.13	650	J
1843056	OCTABENZONE	27.60	890	NJ
	UNKNOWN	27.69	950	J
	UNKNOWN	28.50	720	J
	UNKNOWN	28.91	400	J
	UNKNOWN	29.84	490	J
	UNKNOWN	30.51	530	J
	UNKNOWN	31.15	420	J
	UNKNOWN	31.37	430	J
	UNKNOWN	31.40	510	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0032

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X202
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	10.24	7	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0032

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X202
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	25.23	420	J
	UNKNOWN	28.00	390	J
	UNKNOWN	28.14	430	J
	UNKNOWN	28.49	440	J
	UNKNOWN	30.01	410	J
	UNKNOWN	31.33	400	J
	UNKNOWN	31.37	400	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0033

Sample Type: Spike Original
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X110
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	3.47	12	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Spike Original	Sample No.:	E0033
Lab ID:	ENVSYS	Location:	X110
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	8.34	1800	JB
	UNKNOWN	9.32	1400	JB
	UNKNOWN	20.14	98	J
	UNKNOWN	20.67	120	J
	UNKNOWN	21.91	140	J
	UNKNOWN	22.19	160	J
	UNKNOWN	26.27	130	J
	UNKNOWN	27.85	200	J
	UNKNOWN	28.15	160	J
	UNKNOWN	28.25	180	J
	UNKNOWN	28.47	210	J
	UNKNOWN	29.84	130	J
	UNKNOWN	30.23	210	J
	UNKNOWN	30.51	160	J
	UNKNOWN	30.65	120	J
	UNKNOWN	31.13	2000	J
	UNKNOWN	32.04	180	J
	UNKNOWN	32.06	210	J
	UNKNOWN	32.13	130	J
	UNKNOWN	32.36	180	J
	UNKNOWN	33.25	350	J
	UNKNOWN	33.45	310	J
	UNKNOWN	34.08	2400	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0035
Lab ID:	ENVSYS	Location:	X204
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	9.33	2800	JB
573988	NAPHTHALENE, 1,2-DIMETHYL-	14.86	580	NJ
	UNKNOWN	15.14	1000	J
	UNKNOWN	15.62	690	J
	UNKNOWN	16.81	750	J
	UNKNOWN	17.37	830	J
	UNKNOWN	18.65	840	J
	UNKNOWN	20.67	700	J
	UNKNOWN	22.87	770	J
	UNKNOWN	23.42	730	J
	UNKNOWN	23.45	680	J
	UNKNOWN	23.73	800	J
82053	7H-BENZ[DE]ANTHRACEN-7-ONE	24.69	750	NJ
	UNKNOWN	25.35	750	J
	UNKNOWN	26.12	620	J
	UNKNOWN	26.49	620	J
	UNKNOWN	28.15	1100	J
	UNKNOWN	28.51	990	J
	UNKNOWN	29.58	990	J
	UNKNOWN	30.52	890	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0036
Lab ID:	ENVSYS	Location:	X102
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
75183	DIMETHYL SULFIDE	2.31	110	NJ
	UNKNOWN	9.89	8	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0036
Lab ID:	ENVSYS	Location:	X102
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	7.58	1600	JB
	UNKNOWN	8.34	2500	JB
	UNKNOWN	9.15	520	J
	UNKNOWN	9.32	1500	JB
541026	CYCLOPENTASILOXANE, DECAMETHYL-	10.79	130	NJ
	UNKNOWN	16.89	210	J
57103	N-HEXADECANOIC ACID	20.68	490	NJ
	UNKNOWN	23.73	160	J
	UNKNOWN	24.84	160	J
	UNKNOWN	27.56	270	J
67860042	OXIRANE, HEPTADECYL-	27.86	630	NJ
	UNKNOWN	28.33	450	J
	UNKNOWN	28.90	180	J
	UNKNOWN	29.85	200	J
	UNKNOWN	31.59	200	J
	UNKNOWN	31.61	210	J
	UNKNOWN	32.05	650	J
	UNKNOWN	32.12	380	J
	UNKNOWN	32.60	340	J
	UNKNOWN	33.41	180	J
1058613	STIGMAST-4-EN-3-ONE	33.58	660	NJ

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0037
Lab ID:	ENVSYS	Location:	X101
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
75183	DIMETHYL SULFIDE	2.31	130	NJ

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample Type:	Routine Sample	Sample No.:	E0037
Lab ID:	ENVSYS	Location:	X101
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	7.58	1900	JB
	UNKNOWN	9.15	500	J
	UNKNOWN	9.32	1500	JB
541026	CYCLOPENTASILOXANE, DECAMETHYL-	10.79	120	NJ
	UNKNOWN	16.89	180	J
	UNKNOWN	19.29	120	J
57103	N-HEXADECANOIC ACID	20.68	450	NJ
14811951	1,19-EICOSADIENE	27.86	500	NJ
71502222	9-HEXACOSENE	28.33	360	NJ
	UNKNOWN	28.48	210	J
	UNKNOWN	29.09	170	J
	UNKNOWN	29.85	310	J
	UNKNOWN	31.48	210	J
	UNKNOWN	31.60	190	J
83476	.GAMMA.-SITOSTEROL	32.05	600	NJ
	UNKNOWN	32.13	260	J
	UNKNOWN	32.60	320	J
	UNKNOWN	33.41	170	J
	UNKNOWN	33.59	620	J

Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0038

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X205
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	20.66	1600	J
238846	11H-BENZO[A]FLUORENE	23.42	2200	NJ
2381217	PYRENE, 1-METHYL-	23.66	1400	NJ
	UNKNOWN	23.71	1100	J
3353126	PYRENE, 4-METHYL-	23.88	1100	NJ
	UNKNOWN	24.67	1500	J
239350	BENZO[B]NAPHTHO[2,1-D]THIOPHENE	24.91	1700	NJ
	UNKNOWN	25.02	1900	J
	UNKNOWN	25.15	1200	J
	UNKNOWN	25.40	1400	J
	UNKNOWN	25.68	1100	J
	UNKNOWN	25.76	1500	J
2498773	BENZ[A]ANTHRACENE, 1-METHYL-	26.47	1800	NJ
100019560	1-BROMO-11-IODOUNDECANE	27.84	1400	NJ
	UNKNOWN	28.14	3500	J
	UNKNOWN	28.34	1800	J
192972	BENZO[E]PYRENE	28.49	5900	NJ
	UNKNOWN	28.75	2000	J
	UNKNOWN	28.89	1800	J
	UNKNOWN	29.04	1400	J
	UNKNOWN	29.82	1700	J
	UNKNOWN	30.74	1600	J
	UNKNOWN	31.27	1400	J
	UNKNOWN	33.57	1600	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0039

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location: X206
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	2.00	36	J
	UNKNOWN	3.20	32	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

		Sample No.:	E0039
Sample Type:	Routine Sample		
Lab ID:	ENVSYS	Location:	X206
Case No.:	32724	Matrix/Level:	Soil/Low
SDG No.:	E0020	File Name:	E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	18.01	1700	J
	UNKNOWN	20.65	1000	J
	UNKNOWN	21.79	1700	J
	UNKNOWN	22.28	1600	J
	UNKNOWN	23.43	1200	J
	UNKNOWN	24.22	4000	J
	UNKNOWN	24.26	1600	J
	UNKNOWN	24.54	3400	J
	UNKNOWN	24.62	1100	J
	UNKNOWN	25.01	1400	J
	UNKNOWN	25.76	1100	J
	UNKNOWN	26.46	1000	J
100018856	HYDRAZINE,1-(3-NITROPHENYLMETHYLENE)-2-[	28.13	1400	NJ
	UNKNOWN	28.23	2600	J
	UNKNOWN	28.34	1400	J
192972	BENZO[E]PYRENE	28.48	3900	NJ
	UNKNOWN	28.75	1700	J
	UNKNOWN	29.56	2100	J
	UNKNOWN	29.82	1900	J
	UNKNOWN	30.48	1900	J
	UNKNOWN	31.16	2900	J
	UNKNOWN	31.36	1500	J
	UNKNOWN	32.03	1200	J
	UNKNOWN	32.04	1300	J
	UNKNOWN	32.06	1300	J
	UNKNOWN	32.10	1400	J
	UNKNOWN	32.11	1600	J

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: SBLK39

Sample Type: Method Blank
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location:
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	7.61	210	J
	UNKNOWN	8.36	170	J
	UNKNOWN	8.73	80	J
	UNKNOWN	9.34	74	J
	UNKNOWN	10.79	140	J
	UNKNOWN	13.87	87	J

*Q: Laboratory Qualifier

Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: VHBLKFB

Sample Type: Storage Blank
Lab ID: ENVSYS
Case No.: 32724
SDG No.: E0020

Location:
Matrix/Level: Soil/Low
File Name: E0020

CAS No.	Compound Name	RT	Concentration (UG/KG)	Q*
	UNKNOWN	3.70	8	J

*Q: Laboratory Qualifier

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E0020		E0021		E0022		E0023		E0023RE	
Sampling Location :	X207		X208		X209		X103		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/31/2004		3/31/2004	
Time Sampled :	13:00		13:00		15:40		07:50		07:50	
%Moisture :	35		35		37		9		9	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	15	UJ	15	UJ	16	UJ	15	UJ	17	UJ
CHLOROMETHANE	15	U	15	U	16	U	15	U	17	U
VINYL CHLORIDE	15	U	15	U	16	U	15	U	17	U
BROMOMETHANE	15	U	15	U	16	U	15	U	17	U
CHLOROETHANE	15	U	15	U	16	U	15	U	17	U
TRICHLOROFLUOROMETHANE	15	U	15	U	16	U	15	U	17	U
1,1-DICHLOROETHENE	15	U	15	U	16	U	15	U	17	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	15	U	15	U	16	U	15	U	17	U
ACETONE	15	U	15	U	16	U	24	U	32	U
CARBON DISULFIDE	15	U	15	U	16	U	15	U	17	U
METHYL ACETATE	15	U	15	U	16	U	15	U	17	U
METHYLENE CHLORIDE	15	U	15	U	16	U	15	U	17	U
TRANS-1,2-DICHLOROETHENE	15	U	15	U	16	U	15	U	17	U
METHYL TERT-BUTYL ETHER	15	U	15	U	16	U	15	U	17	U
1,1-DICHLOROETHANE	15	U	15	U	16	U	15	U	17	U
CIS-1,2-DICHLOROETHENE	15	U	15	U	16	U	15	U	17	U
2-BUTANONE	15	U	15	U	16	U	15	U	17	U
CHLOROFORM	15	U	15	U	16	U	15	U	17	U
1,1,1-TRICHLOROETHANE	15	U	15	U	16	U	15	U	17	U
CYCLOHEXANE	15	U	15	U	16	U	15	U	17	U
CARBON TETRACHLORIDE	15	U	15	U	16	U	15	U	17	U
BENZENE	15	U	15	U	16	U	15	U	17	U
1,2-DICHLOROETHANE	15	U	15	U	16	U	15	U	17	U
TRICHLOROETHENE	15	U	15	U	16	U	15	U	17	U
METHYLCYCLOHEXANE	15	U	15	U	16	U	15	U	17	U
1,2-DICHLOROPROPANE	15	U	15	U	16	U	15	U	17	U
BROMODICHLOROMETHANE	15	U	15	U	16	U	15	U	17	U
CIS-1,3-DICHLOROPROPENE	15	U	15	U	16	U	15	U	17	U
4-METHYL-2-PENTANONE	15	U	15	U	16	U	15	U	17	U
TOLUENE	15	U	15	U	16	U	15	UJ	17	UJ
TRANS-1,3-DICHLOROPROPENE	15	U	15	U	16	U	15	U	17	U
1,1,2-TRICHLOROETHANE	15	U	15	U	16	U	15	U	17	U
TETRACHLOROETHENE	15	U	15	U	16	U	15	UJ	17	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0020		E0021		E0022		E0023		E0023RE	
Sampling Location :	X207		X208		X209		X103		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/31/2004		3/31/2004	
Time Sampled :	13:00		13:00		15:40		07:50		07:50	
%Moisture :	35		35		37		9		9	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	15	UJ	15	UJ	16	UJ	15	UJ	17	UJ
DIBROMOCHLOROMETHANE	15	U	15	U	16	U	15	U	17	U
1,2-DIBROMOETHANE	15	U	15	U	16	U	15	UJ	17	UJ
CHLOROBENZENE	15	U	15	U	6	J	15	UJ	17	UJ
ETHYLBENZENE	15	U	15	U	16	U	15	UJ	17	UJ
XYLENES (TOTAL)	15	U	15	U	16	U	15	UJ	17	UJ
STYRENE	15	U	15	U	16	U	15	UJ	17	UJ
BROMOFORM	15	U	15	U	16	U	15	U	17	U
ISOPROPYLBENZENE	15	U	15	U	16	U	15	UJ	17	UJ
1,1,2,2-TETRACHLOROETHANE	15	U	15	U	16	U	15	UJ	17	UJ
1,3-DICHLOROBENZENE	15	U	15	U	16	U	15	UJ	17	UJ
1,4-DICHLOROBENZENE	15	U	15	U	3	J	15	UJ	17	UJ
1,2-DICHLOROBENZENE	15	U	15	U	16	U	15	UJ	17	UJ
1,2-DIBROMO-3-CHLOROPROPANE	15	U	15	U	16	U	15	UJ	17	UJ
1,2,4-TRICHLOROBENZENE	15	UJ	15	UJ	16	UJ	15	UJ	17	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0024		E0025		E0026		E0027		E0028	
Sampling Location :	X104		X105		X106		X201		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	08:10		08:50		09:15		10:10		10:15	
%Moisture :	18		22		30		34		23	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	11	U	12	U	16	U	15	U	14	U
CHLOROMETHANE	11	U	12	U	16	U	15	U	14	U
VINYL CHLORIDE	11	U	12	U	16	U	15	U	14	U
BROMOMETHANE	11	U	12	U	16	U	15	U	14	U
CHLOROETHANE	11	U	12	U	16	U	15	U	14	U
TRICHLOROFLUOROMETHANE	11	U	12	U	16	U	15	U	14	U
1,1-DICHLOROETHENE	11	U	12	U	16	U	15	U	14	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	11	U	12	U	16	U	15	U	14	U
ACETONE	11	U	12	U	16	U	15	U	16	J
CARBON DISULFIDE	11	U	12	U	16	U	15	U	14	U
METHYL ACETATE	11	U	12	U	16	U	15	U	14	U
METHYLENE CHLORIDE	3	J	3	J	5	J	15	U	14	U
TRANS-1,2-DICHLOROETHENE	11	U	12	U	16	U	15	U	14	U
METHYL TERT-BUTYL ETHER	11	U	12	U	16	U	15	U	14	U
1,1-DICHLOROETHANE	11	U	12	U	16	U	15	U	14	U
CIS-1,2-DICHLOROETHENE	11	U	12	U	16	U	15	U	14	U
2-BUTANONE	11	U	12	U	16	U	15	U	14	U
CHLOROFORM	11	U	12	U	16	U	15	U	14	U
1,1,1-TRICHLOROETHANE	11	U	12	U	16	U	15	U	14	U
CYCLOHEXANE	11	U	12	U	16	U	15	U	14	U
CARBON TETRACHLORIDE	11	U	12	U	16	U	15	U	14	U
BENZENE	11	U	12	U	16	U	15	U	14	U
1,2-DICHLOROETHANE	11	U	12	U	16	U	15	U	14	U
TRICHLOROETHENE	11	U	12	U	16	U	15	U	14	U
METHYLCYCLOHEXANE	11	U	12	U	16	U	15	U	14	U
1,2-DICHLOROPROPANE	11	U	12	U	16	U	15	U	14	U
BROMODICHLOROMETHANE	11	U	12	U	16	U	15	U	14	U
CIS-1,3-DICHLOROPROPENE	11	U	12	U	16	U	15	U	14	U
4-METHYL-2-PENTANONE	11	U	12	U	16	U	15	U	14	U
TOLUENE	11	U	12	U	16	U	15	U	14	U
TRANS-1,3-DICHLOROPROPENE	11	U	12	U	16	U	15	U	14	U
1,1,2-TRICHLOROETHANE	11	U	12	U	16	U	15	U	14	U
TETRACHLOROETHENE	11	U	12	U	16	U	15	U	14	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0024		E0025		E0026		E0027		E0028	
Sampling Location :	X104		X105		X106		X201		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	08:10		08:50		09:15		10:10		10:15	
%Moisture :	18		22		30		34		23	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	11	UJ	12	UJ	16	UJ	15	UJ	14	UJ
DIBROMOCHLOROMETHANE	11	U	12	U	16	U	15	U	14	U
1,2-DIBROMOETHANE	11	U	12	U	16	U	15	U	14	U
CHLOROBENZENE	11	U	12	U	16	U	15	U	14	U
ETHYLBENZENE	11	U	12	U	16	U	15	U	14	U
XYLENES (TOTAL)	11	U	12	U	16	U	15	U	14	U
STYRENE	11	U	12	U	16	U	15	U	14	U
BROMOFORM	11	U	12	U	16	U	15	U	14	U
ISOPROPYLBENZENE	11	U	12	U	16	U	15	U	14	U
1,1,2,2-TETRACHLOROETHANE	11	U	12	U	16	U	15	U	14	U
1,3-DICHLOROBENZENE	11	U	12	U	16	U	15	U	14	U
1,4-DICHLOROBENZENE	11	U	12	U	16	U	15	U	14	U
1,2-DICHLOROBENZENE	11	U	12	U	16	U	15	U	14	U
1,2-DIBROMO-3-CHLOROPROPANE	11	U	12	U	16	U	15	U	14	U
1,2,4-TRICHLOROBENZENE	11	UJ	12	UJ	16	UJ	15	UJ	14	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0029		E0029DL		E0030		E0030RE		E0031	
Sampling Location :	X108		X108		X109		X109		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	19:25		19:25		10:35		10:35		11:50	
%Moisture :	51		51		18		18		41	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	26	UJ	100	UJ	15	UJ	14	UJ	17	U
CHLOROMETHANE	26	U	100	U	15	UJ	14	U	17	U
VINYL CHLORIDE	26	U	100	U	15	UJ	14	U	17	U
BROMOMETHANE	26	U	100	U	15	UJ	14	U	17	U
CHLOROETHANE	26	U	100	U	15	UJ	14	U	17	U
TRICHLOROFLUOROMETHANE	26	U	100	UJ	15	UJ	14	UJ	17	U
1,1-DICHLOROETHENE	26	U	100	U	15	UJ	14	U	17	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	26	U	100	U	15	UJ	14	U	17	U
ACETONE	9000		100	U	15	UJ	14	U	17	UJ
CARBON DISULFIDE	26	U	100	U	15	UJ	14	U	17	U
METHYL ACETATE	26	U	100	U	15	UJ	14	U	17	U
METHYLENE CHLORIDE	26	U	100	U	15	UJ	14	U	17	U
TRANS-1,2-DICHLOROETHENE	26	U	100	U	15	UJ	14	U	17	U
METHYL TERT-BUTYL ETHER	26	U	100	U	15	UJ	14	U	17	U
1-DICHLOROETHANE	26	U	100	U	15	UJ	14	U	17	U
S-1,2-DICHLOROETHENE	26	U	100	U	15	UJ	14	U	17	U
2-BUTANONE	30		100	U	15	UJ	14	U	17	U
CHLOROFORM	26	U	100	U	15	UJ	14	U	17	U
1,1,1-TRICHLOROETHANE	26	U	100	U	15	UJ	14	U	17	U
CYCLOHEXANE	22	J	100	U	15	UJ	14	U	17	U
CARBON TETRACHLORIDE	26	U	100	U	15	UJ	14	U	17	U
BENZENE	41		100	U	15	UJ	14	U	17	U
1,2-DICHLOROETHANE	26	U	100	U	15	UJ	14	U	17	U
TRICHLOROETHENE	26	U	100	U	15	UJ	14	U	17	U
METHYLCYCLOHEXANE	11	J	100	U	15	UJ	14	U	17	U
1,2-DICHLOROPROPANE	26	U	100	U	15	UJ	14	U	17	U
BROMODICHLOROMETHANE	26	U	100	U	15	UJ	14	U	17	U
CIS-1,3-DICHLOROPROPENE	26	U	100	U	15	UJ	14	U	17	U
4-METHYL-2-PENTANONE	26	U	100	U	15	UJ	14	U	17	U
TOLUENE	12	J	100	U	15	UJ	14	UJ	17	U
TRANS-1,3-DICHLOROPROPENE	26	U	100	U	15	UJ	14	U	17	U
1,1,2-TRICHLOROETHANE	26	U	100	U	15	UJ	14	U	17	U
TETRACHLOROETHENE	26	UJ	100	U	15	UJ	14	UJ	17	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0029		E0029DL		E0030		E0030RE		E0031	
Sampling Location :	X108		X108		X109		X109		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	19:25		19:25		10:35		10:35		11:50	
%Moisture :	51		51		18		18		41	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	26	UJ	100	U	15	UJ	14	UJ	17	UJ
DIBROMOCHLOROMETHANE	26	U	100	U	15	UJ	14	U	17	U
1,2-DIBROMOETHANE	26	UJ	100	U	15	UJ	14	UJ	17	U
CHLOROBENZENE	26	UJ	100	U	15	UJ	14	UJ	17	U
ETHYLBENZENE	26	UJ	100	U	15	UJ	14	UJ	17	U
XYLENES (TOTAL)	41	J	100	U	15	UJ	14	UJ	17	U
STYRENE	26	UJ	100	U	15	UJ	14	UJ	17	U
BROMOFORM	26	U	100	U	15	UJ	14	U	17	U
ISOPROPYLBENZENE	26	UJ	100	U	15	UJ	14	UJ	17	U
1,1,2,2-TETRACHLOROETHANE	26	UJ	100	U	15	UJ	14	UJ	17	U
1,3-DICHLOROBENZENE	26	UJ	100	U	15	UJ	14	UJ	17	U
1,4-DICHLOROBENZENE	26	UJ	100	U	15	UJ	14	UJ	17	U
1,2-DICHLOROBENZENE	26	UJ	100	U	15	UJ	14	UJ	17	U
1,2-DIBROMO-3-CHLOROPROPANE	26	UJ	100	U	15	UJ	14	UJ	17	U
1,2,4-TRICHLOROBENZENE	26	UJ	100	U	15	UJ	14	UJ	17	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0032		E0033		E0033MS		E0033MSD		E0035	
Sampling Location :	X202		X110		X110		X110		X204	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	11:35		11:20		11:20		11:20		12:40	
%Moisture :	14		24		24		24		33	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	12	U	12	U	12	U	12	U	15	U
CHLOROMETHANE	12	U	12	U	12	U	12	U	15	U
VINYL CHLORIDE	12	U	12	U	12	U	12	U	15	U
BROMOMETHANE	12	U	12	U	12	U	12	U	15	U
CHLOROETHANE	12	U	12	U	12	U	12	U	15	U
TRICHLOROFLUOROMETHANE	12	U	12	U	12	U	12	U	15	U
1,1-DICHLOROETHENE	12	U	12	U	41		43		15	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	12	U	12	U	12	U	12	U	15	U
ACETONE	12	U	[illegible]	[illegible]	12	U	12	U	15	UJ
CARBON DISULFIDE	12	U	12	U	12	U	12	U	15	U
METHYL ACETATE	12	U	12	U	12	U	12	U	15	U
METHYLENE CHLORIDE	12	U	12	U	12	U	12	U	15	U
TRANS-1,2-DICHLOROETHENE	12	U	12	U	12	U	12	U	15	U
METHYL TERT-BUTYL ETHER	12	U	12	U	12	U	12	U	15	U
1-DICHLOROETHANE	12	U	12	U	12	U	12	U	15	U
S-1,2-DICHLOROETHENE	12	U	12	U	12	U	12	U	15	U
2-BUTANONE	12	U	12	U	12	U	12	U	15	U
CHLOROFORM	12	U	12	U	12	U	12	U	15	U
1,1,1-TRICHLOROETHANE	12	U	12	U	12	U	12	U	15	U
CYCLOHEXANE	12	U	12	U	12	U	12	U	15	U
CARBON TETRACHLORIDE	12	U	12	U	12	U	12	U	15	U
BENZENE	12	U	12	U	48		52		15	U
1,2-DICHLOROETHANE	12	U	12	U	12	U	12	U	15	U
TRICHLOROETHENE	12	U	12	U	43		46		15	U
METHYLCYCLOHEXANE	12	U	12	U	12	U	12	U	15	U
1,2-DICHLOROPROPANE	12	U	12	U	12	U	12	U	15	U
BROMODICHLOROMETHANE	12	U	12	U	12	U	12	U	15	U
CIS-1,3-DICHLOROPROPENE	12	U	12	U	12	U	12	U	15	U
4-METHYL-2-PENTANONE	12	U	12	U	12	U	12	U	15	UJ
TOLUENE	12	U	12	U	56		59		15	UJ
TRANS-1,3-DICHLOROPROPENE	12	U	12	U	12	U	12	U	15	U
1,1,2-TRICHLOROETHANE	12	U	12	U	12	U	12	U	15	U
TETRACHLOROETHENE	12	U	12	U	12	U	12	U	15	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0032		E0033		E0033MS		E0033MSD		E0035	
Sampling Location :	X202		X110		X110		X110		X204	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	11:35		11:20		11:20		11:20		12:40	
%Moisture :	14		24		24		24		33	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	12	UJ	12	UJ	12	UJ	12	UJ	15	UJ
DIBROMOCHLOROMETHANE	12	U	12	U	12	U	12	U	15	U
1,2-DIBROMOETHANE	12	U	12	U	12	U	12	U	15	UJ
CHLOROBENZENE	12	U	12	U	52		54		15	UJ
ETHYLBENZENE	12	U	12	U	12	U	12	U	15	UJ
XYLENES (TOTAL)	12	U	12	U	12	U	12	U	15	UJ
STYRENE	12	U	12	U	12	U	12	U	15	UJ
BROMOFORM	12	U	12	U	12	U	12	U	15	U
ISOPROPYLBENZENE	12	U	12	U	12	U	12	U	15	UJ
1,1,2,2-TETRACHLOROETHANE	12	U	12	U	12	U	12	U	15	UJ
1,3-DICHLOROBENZENE	12	U	12	U	12	U	12	U	15	UJ
1,4-DICHLOROBENZENE	12	U	12	U	12	U	12	U	15	UJ
1,2-DICHLOROBENZENE	12	U	12	U	12	U	12	U	15	UJ
1,2-DIBROMO-3-CHLOROPROPANE	12	U	12	U	12	U	12	U	15	UJ
1,2,4-TRICHLOROBENZENE	12	UJ	12	UJ	12	UJ	12	UJ	15	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0035RE		E0036		E0037		E0038		E0038RE	
Sampling Location :	X204		X102		X101		X205		X205	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	12:40		14:15		14:15		13:55		13:55	
%Moisture :	33		27		26		60		60	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
CHLOROMETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
VINYL CHLORIDE	15	UJ	16	U	15	U	25	UJ	25	UJ
BROMOMETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
CHLOROETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
TRICHLOROFLUOROMETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,1-DICHLOROETHENE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	15	UJ	16	U	15	U	25	UJ	25	UJ
ACETONE	15	UJ	6	J	6	J	25	UJ	25	UJ
CARBON DISULFIDE	15	UJ	16	U	15	U	25	UJ	25	UJ
METHYL ACETATE	15	UJ	16	U	15	U	25	UJ	25	UJ
METHYLENE CHLORIDE	22	UJ	16	U	15	U	25	UJ	25	UJ
TRANS-1,2-DICHLOROETHENE	15	UJ	16	U	15	U	25	UJ	25	UJ
METHYL TERT-BUTYL ETHER	15	UJ	16	U	15	U	25	UJ	25	UJ
1-DICHLOROETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
S-1,2-DICHLOROETHENE	4	J	16	U	15	U	25	UJ	25	UJ
-BUTANONE	15	UJ	16	U	15	U	25	UJ	25	UJ
CHLOROFORM	15	UJ	16	U	15	U	25	UJ	25	UJ
1,1,1-TRICHLOROETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
CYCLOHEXANE	15	UJ	16	U	15	U	25	UJ	25	UJ
CARBON TETRACHLORIDE	15	UJ	16	U	15	U	25	UJ	25	UJ
BENZENE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,2-DICHLOROETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
TRICHLOROETHENE	15	UJ	16	U	15	U	25	UJ	25	UJ
METHYLCYCLOHEXANE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,2-DICHLOROPROPANE	15	UJ	16	U	15	U	25	UJ	25	UJ
BROMODICHLOROMETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
CIS-1,3-DICHLOROPROPENE	15	UJ	16	U	15	U	25	UJ	25	UJ
4-METHYL-2-PENTANONE	15	UJ	16	U	15	U	25	UJ	25	UJ
TOLUENE	15	UJ	16	U	15	U	25	UJ	25	UJ
TRANS-1,3-DICHLOROPROPENE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,1,2-TRICHLOROETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
TETRACHLOROETHENE	15	UJ	16	U	15	U	25	UJ	25	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0035RE		E0036		E0037		E0038		E0038RE	
Sampling Location :	X204		X102		X101		X205		X205	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	12:40		14:15		14:15		13:55		13:55	
%Moisture :	33		27		26		60		60	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	15	UJ	16	UJ	15	UJ	25	UJ	25	UJ
DIBROMOCHLOROMETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,2-DIBROMOETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
CHLOROBENZENE	15	UJ	16	U	15	U	25	UJ	25	UJ
ETHYLBENZENE	15	UJ	16	U	15	U	25	UJ	25	UJ
XYLENES (TOTAL)	15	UJ	16	U	15	U	25	UJ	25	UJ
STYRENE	15	UJ	16	U	15	U	25	UJ	25	UJ
BROMOFORM	15	UJ	16	U	15	U	25	UJ	25	UJ
ISOPROPYLBENZENE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,1,2,2-TETRACHLOROETHANE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,3-DICHLOROBENZENE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,4-DICHLOROBENZENE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,2-DICHLOROBENZENE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,2-DIBROMO-3-CHLOROPROPANE	15	UJ	16	U	15	U	25	UJ	25	UJ
1,2,4-TRICHLOROBENZENE	15	UJ	16	UJ	15	UJ	25	UJ	25	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0039		VBLKFA		VBLKFB		VBLKFZ		VBLKF7	
Sampling Location :	X206									
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004									
Time Sampled :	14:45									
%Moisture :	63		N/A		N/A		N/A		N/A	
pH :	7.0									
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	27	UJ	10	UJ	10	UJ	10	UJ	10	U
CHLOROMETHANE	27	U	10	U	10	U	10	U	10	U
VINYL CHLORIDE	27	U	10	U	10	U	10	U	10	U
BROMOMETHANE	27	U	10	U	10	U	10	U	10	U
CHLOROETHANE	27	U	10	U	10	U	10	UJ	10	U
TRICHLOROFLUOROMETHANE	27	UJ	10	U	10	UJ	10	U	10	U
1,1-DICHLOROETHENE	27	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	27	U	10	U	10	U	10	U	10	U
ACETONE	27	U	10	UJ	3	J	10	UJ	2	J
CARBON DISULFIDE	27	U	10	U	10	U	10	U	10	U
METHYL ACETATE	27	U	10	U	10	U	10	U	10	U
METHYLENE CHLORIDE	27	U	2	J	3	J	4	J	10	U
TRANS-1,2-DICHLOROETHENE	27	U	10	U	10	U	10	U	10	U
METHYL TERT-BUTYL ETHER	27	U	10	U	10	U	10	U	10	U
1-DICHLOROETHANE	27	U	10	U	10	U	10	U	10	U
S-1,2-DICHLOROETHENE	27	U	10	U	10	U	10	U	10	U
2-BUTANONE	27	U	10	U	10	U	10	U	10	U
CHLOROFORM	27	U	10	U	10	U	10	U	10	U
1,1,1-TRICHLOROETHANE	27	U	10	U	10	U	10	U	10	U
CYCLOHEXANE	27	U	10	U	10	U	10	U	10	U
CARBON TETRACHLORIDE	27	UJ	10	U	10	UJ	10	U	10	U
BENZENE	27	U	10	U	10	U	10	U	10	U
1,2-DICHLOROETHANE	27	U	10	U	10	U	10	U	10	U
TRICHLOROETHENE	27	U	10	U	10	U	10	U	10	U
METHYLCYCLOHEXANE	27	U	10	U	10	U	10	U	10	U
1,2-DICHLOROPROPANE	27	U	10	U	10	U	10	U	10	U
BROMODICHLOROMETHANE	27	U	10	U	10	U	10	U	10	U
CIS-1,3-DICHLOROPROPENE	27	U	10	U	10	U	10	U	10	U
4-METHYL-2-PENTANONE	27	U	10	U	10	U	10	U	10	U
TOLUENE	27	U	10	U	10	U	10	U	10	U
TRANS-1,3-DICHLOROPROPENE	27	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	27	U	10	U	10	U	10	U	10	U
TETRACHLOROETHENE	27	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0039		VBLKFA		VBLKFB		VBLKFZ		VBLKF7	
Sampling Location :	X206									
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004									
Time Sampled :	14:45									
%Moisture :	63		N/A		N/A		N/A		N/A	
pH :	7.0									
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	27	UJ	10	UJ	10	U	10	UJ	10	UJ
DIBROMOCHLOROMETHANE	27	U	10	U	10	U	10	U	10	U
1,2-DIBROMOETHANE	27	U	10	U	10	U	10	U	10	U
CHLOROBENZENE	27	U	10	U	10	U	10	U	10	U
ETHYLBENZENE	27	U	10	U	10	U	10	U	10	U
XYLENES (TOTAL)	27	U	10	U	10	U	10	U	10	U
STYRENE	27	U	10	U	10	U	10	U	10	U
BROMOFORM	27	U	10	U	10	U	10	U	10	U
ISOPROPYLBENZENE	27	U	10	U	10	U	10	U	10	U
1,1,2,2-TETRACHLOROETHANE	27	U	10	U	10	U	10	U	10	U
1,3-DICHLOROBENZENE	27	U	10	U	10	U	10	U	10	U
1,4-DICHLOROBENZENE	27	U	10	U	10	U	10	U	10	U
1,2-DICHLOROBENZENE	27	U	10	U	10	U	10	U	10	U
1,2-DIBROMO-3-CHLOROPROPANE	27	U	10	U	10	U	10	U	10	U
1,2,4-TRICHLOROBENZENE	27	U	10	UJ	10	U	10	UJ	10	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	VHBLKFB									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	0									
pH :	7.0									
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	10	UJ								
CHLOROMETHANE	10	U								
VINYL CHLORIDE	10	U								
BROMOMETHANE	10	U								
CHLOROETHANE	10	U								
TRICHLOROFLUOROMETHANE	10	UJ								
1,1-DICHLOROETHENE	10	U								
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	10	U								
ACETONE	10	UJ								
CARBON DISULFIDE	10	U								
METHYL ACETATE	10	U								
METHYLENE CHLORIDE	10	U								
TRANS-1,2-DICHLOROETHENE	10	U								
METHYL TERT-BUTYL ETHER	10	U								
1,1-DICHLOROETHANE	10	U								
IS-1,2-DICHLOROETHENE	10	U								
2-BUTANONE	10	U								
CHLOROFORM	10	U								
1,1,1-TRICHLOROETHANE	10	U								
CYCLOHEXANE	10	U								
CARBON TETRACHLORIDE	10	UJ								
BENZENE	10	U								
1,2-DICHLOROETHANE	10	U								
TRICHLOROETHENE	10	U								
METHYLCYCLOHEXANE	10	UJ								
1,2-DICHLOROPROPANE	10	U								
BROMODICHLOROMETHANE	10	U								
CIS-1,3-DICHLOROPROPENE	10	U								
4-METHYL-2-PENTANONE	10	U								
TOLUENE	10	U								
TRANS-1,3-DICHLOROPROPENE	10	U								
1,1,2-TRICHLOROETHANE	10	U								
TETRACHLOROETHENE	10	U								

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	VHBLKFB									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	0									
pH :	7.0									
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	10	U								
DIBROMOCHLOROMETHANE	10	U								
1,2-DIBROMOETHANE	10	U								
CHLOROBENZENE	10	U								
ETHYLBENZENE	10	U								
XYLENES (TOTAL)	10	U								
STYRENE	10	U								
BROMOFORM	10	U								
ISOPROPYLBENZENE	10	U								
1,1,2,2-TETRACHLOROETHANE	10	U								
1,3-DICHLOROBENZENE	10	U								
1,4-DICHLOROBENZENE	10	U								
1,2-DICHLOROBENZENE	10	U								
1,2-DIBROMO-3-CHLOROPROPANE	10	U								
1,2,4-TRICHLOROBENZENE	10	U								

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E0020		E0021		E0022		E0022DL		E0023	
Sampling Location :	X207		X208		X209		X209		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004		3/31/2004	
Time Sampled :	13:00		13:00		15:40		15:40		07:50	
%Moisture :	35		35		37		37		9	
pH :	8.4		7.8		8.3		8.3		7.8	
Dilution Factor :	5.0		5.0		5.0		20.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	2500	UJ	2500	UJ	2600	UJ	10000	UJ	3600	UJ
PHENOL	2500	UJ	2500	UJ	2600	UJ	10000	UJ	3600	UJ
BIS-(2-CHLOROETHYL)ETHER	2500	UJ	2500	UJ	2600	UJ	10000	UJ	3600	UJ
2-CHLOROPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
2-METHYLPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
2,2'-OXYBIS(1- CHLOROPROPANE)	2500	UJ	2500	UJ	2600	UJ	10000	UJ	3600	UJ
ACETOPHENONE	2500	U	2500	U	2600	U	10000	U	3600	U
4-METHYLPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
N-NITROSO-DI-N PROPYLAMINE	2500	UJ	2500	UJ	2600	UJ	10000	UJ	3600	UJ
HEXACHLOROETHANE	2500	U	2500	U	2600	U	10000	U	3600	U
NITROBENZENE	2500	U	2500	U	2600	U	10000	U	3600	U
ISOPHORONE	2500	U	2500	U	2600	U	10000	U	3600	U
2-NITROPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
2,4-DIMETHYLPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
BIS(2-CHLOROETHOXY)METHANE	2500	U	2500	U	2600	U	10000	U	3600	U
4-DICHLOROPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
NAPHTHALENE	2500	U	2500	U	650	J	10000	U	3600	U
4-CHLOROANILINE	2500	U	2500	U	2600	U	10000	U	3600	U
HEXACHLOROBUTADIENE	2500	UJ	2500	UJ	2600	UJ	10000	UJ	3600	UJ
CAPROLACTAM	2500	U	2500	U	2600	U	10000	U	3600	U
4-CHLORO-3-METHYLPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
2-METHYLNAPHTHALENE	2500	U	2500	U	710	J	10000	U	3600	U
HEXACHLOROCYCLO-PENTADIEN	2500	U	2500	U	2600	U	10000	U	3600	U
2,4,6-TRICHLOROPHENOL	2500	U	2500	U	2600	U	10000	U	3600	U
2,4,5-TRICHLOROPHENOL	6400	U	6400	U	6600	U	26000	U	9100	U
1,1'-BIPHENYL	2500	U	2500	U	2600	U	10000	U	3600	U
2-CHLORONAPHTHALENE	2500	U	2500	U	2600	U	10000	U	3600	U
2-NITROANILINE	6400	UJ	6400	UJ-	6600	UJ	26000	UJ	9100	UJ
DIMETHYLPHTHALATE	2500	U	2500	U	2600	U	10000	U	3600	U
2,6-DINITROTOLUENE	2500	U	2500	U	2600	U	10000	U	3600	U
ACENAPHTHYLENE	2500	U	380	J	4000		4200	J	3600	U
3-NITROANILINE	6400	UJ	6400	UJ	6600	UJ	26000	UJ	9100	UJ
ACENAPHTHENE	2500	U	380	J	2500	J	2400	J	3600	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0020		E0021		E0022		E0022DL		E0023	
Sampling Location :	X207		X208		X209		X209		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004		3/31/2004	
Time Sampled :	13:00		13:00		15:40		15:40		07:50	
%Moisture :	35		35		37		37		9	
pH :	8.4		7.8		8.3		8.3		7.8	
Dilution Factor :	5.0		5.0		5.0		20.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	6400	UJ	6400	UJ	6600	UJ	26000	UJ	9100	UJ
4-NITROPHENOL	6400	UJ	6400	UJ	6600	UJ	26000	UJ	9100	UJ
DIBENZOFURAN	2500	U	2500	U	750	J	10000	U	3600	U
2,4-DINITROTOLUENE	2500	U	2500	U	2600	U	10000	U	3600	U
DIETHYLPHTHALATE	2500	U	2500	U	2600	U	10000	U	3600	U
FLUORENE	2500	U	480	J	3100		3300	J	3600	U
4-CHLOROPHENYL-PHENYL ETHER	2500	U	2500	U	2600	U	10000	U	3600	U
4-NITROANILINE	6400	UJ	6400	UJ	6600	UJ	26000	UJ	9100	UJ
4,6-DINITRO-2-METHYLPHENOL	6400	U	6400	U	6600	U	26000	U	9100	U
N-NITROSO DIPHENYLAMINE	2500	U	2500	U	2600	U	10000	U	3600	U
4-BROMOPHENYL-PHENYLETHER	2500	U	2500	U	2600	U	10000	U	3600	U
HEXACHLOROBENZENE	2500	U	2500	U	2600	U	10000	U	3600	U
ATRAZINE	2500	U	2500	U	2600	U	10000	U	3600	U
PENTACHLOROPHENOL	6400	U	6400	U	6600	U	26000	U	9100	U
PHENANTHRENE	1500	J	2800		8400		8000	J	3600	U
ANTHRACENE	530	J	1100	J	9200		8900	J	3600	U
CARBAZOLE	2500	U	2500	U	2600	U	10000	U	3600	U
DI-N-BUTYLPHTHALATE	2500	U	2500	U	2600	U	10000	U	3600	U
FLUORANTHENE	4000		5300		30000		28000		460	J
PYRENE	4000		6100		40000		40000		690	J
BUTYLBENZYLPHTHALATE	2500	U	2500	U	2600	U	10000	U	3600	U
3,3'-DICHLOROBENZIDINE	2500	UJ	2500	UJ	2600	UJ	10000	UJ	3600	UJ
BENZO(A)ANTHRACENE	2000	J	3000		26000		25000		3600	U
CHRYSENE	2800		3400		29000		29000		750	J
BIS(2-ETHYLHEXYL)PHTHALATE	560	J	420	J	2600	U	10000	U	1200	J
DI-N-OCTYLPHTHALATE	2500	U	2500	U	2600	U	10000	U	3600	U
BENZO(B)FLUORANTHENE	2000	J	2300	J	17000		16000		380	J
BENZO(K)FLUORANTHENE	1700	J	2000	J	16000		16000		3600	U
BENZO(A)PYRENE	1900	J	2300	J	22000		21000		710	J
INDENO(1,2,3-CD)-PYRENE	1300	J	1400	J	12000		12000		480	J
DIBENZO(A,H)-ANTHRACENE	630	J	580	J	4900		4100	J	3600	U
BENZO(G,H,I)PERYLENE	370	J	520	J	4400		4500	J	490	J

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0024		E0025		E0026		E0027		E0028	
Sampling Location :	X104		X105		X106		X201		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	08:10		08:50		09:15		10:10		10:15	
%Moisture :	18		22		30		34		23	
pH :	8.2		8.0		8.2		7.3		8.4	
Dilution Factor :	1.0		5.0		1.0		5.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
PHENOL	400	U	2100	UJ	470	U	2500	UJ	430	U
BIS-(2-CHLOROETHYL)ETHER	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
2-CHLOROPHENOL	400	U	2100	U	470	U	2500	U	430	U
2-METHYLPHENOL	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
2,2'-OXYBIS(1- CHLOROPROPANE)	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
ACETOPHENONE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
4-METHYLPHENOL	400	U	2100	U	470	U	2500	U	430	U
N-NITROSO-DI-N PROPYLAMINE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
HEXACHLOROETHANE	400	U	2100	U	470	U	2500	U	430	U
NITROBENZENE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
ISOPHORONE	400	U	2100	U	470	U	2500	U	430	U
2-NITROPHENOL	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
2,4-DIMETHYLPHENOL	400	U	2100	U	470	U	2500	U	430	U
BIS(2-CHLOROETHOXY)METHANE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
4-DICHLOROPHENOL	400	U	2100	U	470	U	2500	U	430	U
NAPHTHALENE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
4-CHLOROANILINE	400	U	2100	U	470	U	2500	U	430	U
HEXACHLOROBUTADIENE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
CAPROLACTAM	400	U	2100	U	470	U	2500	U	430	U
4-CHLORO-3-METHYLPHENOL	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
2-METHYLNAPHTHALENE	400	U	2100	U	470	U	2500	U	430	U
HEXACHLOROCYCLO-PENTADIEN	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
2,4,6-TRICHLOROPHENOL	400	U	2100	U	470	U	2500	U	430	U
2,4,5-TRICHLOROPHENOL	1000	UJ	5300	UJ	1200	UJ	6300	UJ	1100	UJ
1,1'-BIPHENYL	400	U	2100	U	470	U	2500	U	430	U
2-CHLORONAPHTHALENE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
2-NITROANILINE	1000	UJ	5300	UJ*	1200	UJ	6300	UJ	1100	UJ
DIMETHYLPHTHALATE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
2,6-DINITROTOLUENE	400	U	2100	U	470	U	2500	U	430	U
ACENAPHTHYLENE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
3-NITROANILINE	1000	UJ	5300	UJ	1200	UJ	6300	UJ	1100	UJ
ACENAPHTHENE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0024		E0025		E0026		E0027		E0028	
Sampling Location :	X104		X105		X106		X201		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	08:10		08:50		09:15		10:10		10:15	
%Moisture :	18		22		30		34		23	
pH :	8.2		8.0		8.2		7.3		8.4	
Dilution Factor :	1.0		5.0		1.0		5.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	1000	UJ	5300	UJ	1200	UJ	6300	UJ	1100	UJ
4-NITROPHENOL	1000	UJ	5300	UJ	1200	UJ	6300	UJ	1100	UJ
DIBENZOFURAN	400	U	2100	U	470	U	2500	U	430	U
2,4-DINITROTOLUENE	400	U	2100	U	470	U	2500	U	430	U
DIETHYLPHTHALATE	400	U	2100	U	470	U	2500	U	430	U
FLUORENE	400	U	2100	U	470	U	2500	U	430	U
4-CHLOROPHENYL-PHENYL ETHER	400	U	2100	U	470	U	2500	U	430	U
4-NITROANILINE	1000	UJ	5300	UJ	1200	UJ	6300	UJ	1100	UJ
4,6-DINITRO-2-METHYLPHENOL	1000	U	5300	U	1200	U	6300	U	1100	U
N-NITROSO DIPHENYLAMINE	400	U	2100	U	470	U	2500	U	430	U
4-BROMOPHENYL-PHENYLETHER	400	U	2100	U	470	U	2500	U	430	U
HEXACHLOROBENZENE	400	U	2100	U	470	U	2500	U	430	U
ATRAZINE	400	U	2100	U	470	U	2500	U	430	U
PENTACHLOROPHENOL	1000	U	5300	U	1200	U	6300	U	1100	U
PHENANTHRENE	86	J	2100	U	140	J	3800		430	U
ANTHRACENE	42	J	2100	U	470	U	650	J	430	U
CARBAZOLE	400	U	2100	U	470	U	430	J	430	U
DI-N-BUTYLPHTHALATE	400	U	2100	U	470	U	2500	U	430	U
FLUORANTHENE	230	J	2100	U	310	J	7400		120	J
PYRENE	230	J	2100	U	250	J	5600		220	J
BUTYLBENZYLPHTHALATE	400	U	2100	U	470	U	2500	U	430	U
3,3'-DICHLOROBENZIDINE	400	UJ	2100	UJ	470	UJ	2500	UJ	430	UJ
BENZO(A)ANTHRACENE	140	J	2100	U	190	J	2900		66	J
CHRYSENE	170	J	2100	U	230	J	3600		98	J
BIS(2-ETHYLHEXYL)PHTHALATE	400	U	2100	U	470	U	630	J	100	J
DI-N-OCTYLPHTHALATE	400	U	2100	U	470	U	2500	U	430	U
BENZO(B)FLUORANTHENE	210	J	2100	U	190	J	3100		99	J
BENZO(K)FLUORANTHENE	160	J	2100	U	180	J	2900		89	J
BENZO(A)PYRENE	160	J	2100	U	110	J	2300	J	160	J
INDENO(1,2,3-CD)-PYRENE	210	J	2100	U	99	J	1700	J	100	J
DIBENZO(A,H)-ANTHRACENE	87	J	2100	U	48	J	580	J	430	U
BENZO(G,H,I)PERYLENE	65	J	2100	U	470	U	400	J	430	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0029		E0030		E0031		E0032		E0033	
Sampling Location :	X108		X109		X203		X202		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	19:25		10:35		11:50		11:35		11:20	
%Moisture :	51		18		41		14		24	
pH :	8.3		7.5		7.6		9.7		8.7	
Dilution Factor :	5.0		1.0		1.0		5.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	3400	U	400	U	560	U	1900	U	430	U
PHENOL	3400	U	400	U	560	U	1900	UJ	430	U
BIS-(2-CHLOROETHYL)ETHER	3400	U	400	U	560	U	1900	UJ	430	U
2-CHLOROPHENOL	3400	U	400	U	560	U	1900	U	430	U
2-METHYLPHENOL	3400	U	400	U	560	U	1900	U	430	U
2,2'-OXYBIS(1- CHLOROPROPANE)	3400	UJ	400	UJ	560	UJ	1900	UJ	430	UJ
ACETOPHENONE	3400	U	400	U	560	U	1900	U	430	U
4-METHYLPHENOL	3400	U	400	U	560	U	1900	U	430	U
N-NITROSO-DI-N PROPYLAMINE	3400	UJ	400	UJ	560	UJ	1900	UJ	430	UJ
HEXACHLOROETHANE	3400	U	400	U	560	U	1900	U	430	U
NITROBENZENE	3400	U	400	U	560	U	1900	U	430	U
ISOPHORONE	3400	U	400	U	560	U	1900	U	430	U
2-NITROPHENOL	3400	U	400	U	560	U	1900	U	430	U
2,4-DIMETHYLPHENOL	3400	U	400	U	560	U	1900	U	430	U
IS(2-CHLOROETHOXY)METHANE	3400	U	400	U	560	U	1900	U	430	U
-DICHLOROPHENOL	3400	U	400	U	560	U	1900	U	430	U
NAPHTHALENE	3400	U	400	U	77	J	1900	U	430	U
4-CHLOROANILINE	3400	U	400	U	560	U	1900	U	430	U
HEXACHLOROBUTADIENE	3400	UJ	400	UJ	560	UJ	1900	UJ	430	UJ
CAPROLACTAM	3400	U	400	U	560	U	1900	U	430	U
4-CHLORO-3-METHYLPHENOL	3400	U	400	U	560	U	1900	U	430	U
2-METHYLNAPHTHALENE	3400	U	400	U	80	J	1900	U	430	U
HEXACHLOROCYCLO-PENTADIEN	3400	UJ	400	UJ	560	UJ	1900	UJ	430	UJ
2,4,6-TRICHLOROPHENOL	3400	U	400	U	560	U	1900	U	430	U
2,4,5-TRICHLOROPHENOL	8500	U	1000	U	1400	U	4800	U	1100	U
1,1'-BIPHENYL	3400	U	400	U	560	U	1900	U	430	U
2-CHLORONAPHTHALENE	3400	U	400	U	560	U	1900	U	430	U
2-NITROANILINE	8500	UJ	1000	UJ	1400	UJ	4800	UJ	1100	UJ
DIMETHYLPHTHALATE	3400	U	400	U	560	U	1900	U	430	U
2,6-DINITROTOLUENE	3400	U	400	U	560	U	1900	U	430	U
ACENAPHTHYLENE	3400	U	400	U	250	J	1900	U	430	U
3-NITROANILINE	8500	UJ	1000	UJ	1400	UJ	4800	UJ	1100	UJ
ACENAPHTHENE	3400	U	400	U	88	J	1900	U	430	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0029		E0030		E0031		E0032		E0033	
Sampling Location :	X108		X109		X203		X202		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	19:25		10:35		11:50		11:35		11:20	
%Moisture :	51		18		41		14		24	
pH :	8.3		7.5		7.6		9.7		8.7	
Dilution Factor :	5.0		1.0		1.0		5.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	8500	UJ	1000	UJ	1400	UJ	4800	UJ	1100	UJ
4-NITROPHENOL	8500	UJ	1000	UJ	1400	UJ	4800	UJ	1100	UJ
DIBENZOFURAN	3400	U	400	U	68	J	1900	U	430	U
2,4-DINITROTOLUENE	3400	U	400	U	560	U	1900	U	430	U
DIETHYLPHTHALATE	3400	U	400	U	560	U	1900	U	430	U
FLUORENE	3400	U	400	U	160	J	1900	U	430	U
4-CHLOROPHENYL-PHENYL ETHER	3400	U	400	U	560	U	1900	U	430	U
4-NITROANILINE	8500	UJ	1000	UJ	1400	UJ	4800	UJ	1100	UJ
4,6-DINITRO-2-METHYLPHENOL	8500	U	1000	U	1400	U	4800	U	1100	U
N-NITROSO DIPHENYLAMINE	3400	U	400	U	560	U	1900	U	430	U
4-BROMOPHENYL-PHENYLETHER	3400	U	400	U	560	U	1900	U	430	U
HEXACHLOROBENZENE	3400	U	400	U	560	U	1900	U	430	U
ATRAZINE	3400	U	400	U	560	U	1900	U	430	U
PENTACHLOROPHENOL	8500	U	1000	U	1400	U	4800	U	1100	U
PHENANTHRENE	440	J	65	J	1200		300	J	140	J
ANTHRACENE	3400	U	400	U	480	J	1900	U	49	J
CARBAZOLE	3400	U	400	U	160	J	1900	U	430	U
DI-N-BUTYLPHTHALATE	3400	U	400	U	560	U	1900	U	430	U
FLUORANTHENE	860	J	180	J	2500		800	J	300	J
PYRENE	710	J	150	J	2100		950	J	290	J
BUTYLBENZYLPHTHALATE	3400	U	400	U	100	J	1900	U	430	U
3,3'-DICHLOROBENZIDINE	3400	UJ	400	UJ	560	UJ	1900	UJ	430	UJ
BENZO(A)ANTHRACENE	480	J	110	J	1400		700	J	280	J
CHRYSENE	550	J	120	J	1700		890	J	370	J
BIS(2-ETHYLHEXYL)PHTHALATE	3400	U	400	U	350	J	220	J	75	J
DI-N-OCTYLPHTHALATE	3400	U	400	U	560	U	1900	U	430	U
BENZO(B)FLUORANTHENE	530	J	140	J	1600		980	J	300	J
BENZO(K)FLUORANTHENE	560	J	120	J	1400		890	J	280	J
BENZO(A)PYRENE	430	J	93	J	970		590	J	250	J
INDENO(1,2,3-CD)-PYRENE	3400	U	92	J	810		510	J	220	J
DIBENZO(A,H)-ANTHRACENE	3400	U	400	U	330	J	230	J	89	J
BENZO(G,H,I)PERYLENE	3400	U	400	U	120	J	1900	U	48	J

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0033MS		E0033MSD		E0035		E0036		E0037	
Sampling Location :	X110		X110		X204		X102		X101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	11:20		11:20		12:40		14:15		14:15	
%Moisture :	24		24		33		27		26	
pH :	8.7		8.7		8.3		7.9		8.3	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	430	U	430	U	2500	U	450	U	450	U
PHENOL	2300		2300		2500	U	450	U	450	U
BIS-(2-CHLOROETHYL)ETHER	430	U	430	U	2500	U	450	U	450	U
2-CHLOROPHENOL	2200		2100		2500	U	450	U	450	U
2-METHYLPHENOL	430	U	430	U	2500	U	450	U	450	U
2,2'-OXYBIS(1- CHLOROPROPANE)	430	UJ	430	UJ	2500	UJ	450	UJ	450	UJ
ACETOPHENONE	430	U	430	U	2500	U	450	U	450	U
4-METHYLPHENOL	430	U	430	U	2500	U	450	U	450	U
N-NITROSO-DI-N PROPYLAMINE	400	U	400	U	2500	UJ	450	UJ	450	UJ
HEXACHLOROETHANE	430	U	430	U	2500	U	450	U	450	U
NITROBENZENE	430	U	430	U	2500	U	450	U	450	U
ISOPHORONE	430	U	430	U	2500	U	450	U	450	U
2-NITROPHENOL	430	U	430	U	2500	U	450	U	450	U
2,4-DIMETHYLPHENOL	430	U	430	U	2500	U	450	U	450	U
BIS(2-CHLOROETHOXY)METHANE	430	U	430	U	2500	U	450	U	450	U
4-DICHLOROPHENOL	430	U	430	U	2500	U	450	U	450	U
NAPHTHALENE	430	U	430	U	2500	U	450	U	450	U
4-CHLOROANILINE	430	U	430	U	2500	U	450	U	450	U
HEXACHLOROBUTADIENE	430	UJ	430	UJ	2500	UJ	450	UJ	450	UJ
CAPROLACTAM	430	U	430	U	2500	U	450	U	450	U
4-CHLORO-3-METHYLPHENOL	2800		2800		2500	U	450	U	450	U
2-METHYLNAPHTHALENE	430	U	430	U	340	J	450	U	450	U
HEXACHLOROCYCLO-PENTADIEN	430	UJ	430	UJ	2500	UJ	450	UJ	450	UJ
2,4,6-TRICHLOROPHENOL	430	U	430	U	2500	U	450	U	450	U
2,4,5-TRICHLOROPHENOL	1100	U	1100	U	6200	U	1100	U	1100	U
1,1'-BIPHENYL	430	U	430	U	2500	U	450	U	450	U
2-CHLORONAPHTHALENE	430	U	430	U	2500	U	450	U	450	U
2-NITROANILINE	1100	UJ	1100	UJ	6200	UJ	1100	UJ	1100	UJ
DIMETHYLPHTHALATE	430	U	430	U	2500	U	450	U	450	U
2,6-DINITROTOLUENE	430	U	430	U	2500	U	450	U	450	U
ACENAPHTHYLENE	430	U	430	U	580	J	450	U	450	U
3-NITROANILINE	1100	UJ	1100	UJ	6200	UJ	1100	UJ	1100	UJ
ACENAPHTHENE	1600		1700		2500	U	450	U	450	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0033MS		E0033MSD		E0035		E0036		E0037	
Sampling Location :	X110		X110		X204		X102		X101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	11:20		11:20		12:40		14:15		14:15	
%Moisture :	24		24		33		27		26	
pH :	8.7		8.7		8.3		7.9		8.3	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	1100	UJ	1100	UJ	6200	UJ	1100	UJ	1100	UJ
4-NITROPHENOL	3200	J	3900	J	6200	UJ	1100	UJ	1100	UJ
DIBENZOFURAN	430	U	430	U	2500	U	450	U	450	U
2,4-DINITROTOLUENE	1700		1900		2500	U	450	U	450	U
DIETHYLPHTHALATE	430	U	430	U	2500	U	450	U	450	U
FLUORENE	430	U	430	U	2500	U	450	U	450	U
4-CHLOROPHENYL-PHENYL ETHER	430	U	430	U	2500	U	450	U	450	U
4-NITROANILINE	1100	UJ	1100	UJ	6200	UJ	1100	UJ	1100	UJ
4,6-DINITRO-2-METHYLPHENOL	1100	U	1100	U	6200	U	1100	U	1100	U
N-NITROSO DIPHENYLAMINE	430	U	430	U	2500	U	450	U	450	U
4-BROMOPHENYL-PHENYLETHER	430	U	430	U	2500	U	450	U	450	U
HEXACHLOROBENZENE	430	U	430	U	2500	U	450	U	450	U
ATRAZINE	430	U	430	U	2500	U	450	U	450	U
PENTACHLOROPHENOL	2700		2800		6200	U	1100	U	1100	U
PHENANTHRENE	430	U	83	J	1300	J	83	J	87	J
ANTHRACENE	430	U	430	U	420	J	450	U	450	U
CARBAZOLE	430	U	430	U	310	J	450	U	450	U
DI-N-BUTYLPHTHALATE	430	U	430	U	2500	U	450	U	450	U
FLUORANTHENE	77	J	180	J	3100		200	J	240	J
PYRENE	1600		1900		2400	J	260	J	330	J
BUTYLBENZYLPHTHALATE	430	U	430	U	2500	U	450	U	450	U
3,3'-DICHLOROBENZIDINE	430	UJ	430	UJ	2500	UJ	450	UJ	450	UJ
BENZO(A)ANTHRACENE	56	J	140	J	2100	J	82	J	110	J
CHRYSENE	87	J	190	J	2700		140	J	180	J
BIS(2-ETHYLHEXYL)PHTHALATE	64	J	53	J	2500	U	59	J	81	J
DI-N-OCTYLPHTHALATE	430	U	430	U	2500	U	450	U	450	U
BENZO(B)FLUORANTHENE	79	J	160	J	3100		130	J	180	J
BENZO(K)FLUORANTHENE	79	J	170	J	2600		140	J	150	J
BENZO(A)PYRENE	67	J	130	J	1100	J	150	J	220	J
INDENO(1,2,3-CD)-PYRENE	63	J	130	J	930	J	120	J	160	J
DIBENZO(A,H)-ANTHRACENE	430	U	54	J	530	J	57	J	49	J
BENZO(G,H,I)PERYLENE	430	U	430	U	2500	U	450	U	450	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0038		E0039		SBLK39					
Sampling Location :	X205		X206							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	3/31/2004		3/31/2004							
Time Sampled :	13:55		14:45							
%Moisture :	60		63		N/A					
pH :	7.9		7.6							
Dilution Factor :	5.0		5.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	4100	U	4500	U	330	U				
PHENOL	4100	UJ	4500	UJ	330	U				
BIS-(2-CHLOROETHYL)ETHER	4100	UJ	4500	UJ	330	U				
2-CHLOROPHENOL	4100	U	4500	U	330	U				
2-METHYLPHENOL	4100	U	4500	U	330	U				
2,2'-OXYBIS(1- CHLOROPROPANE)	4100	UJ	4500	UJ	330	UJ				
ACETOPHENONE	4100	U	4500	U	330	U				
4-METHYLPHENOL	4100	U	4500	U	330	U				
N-NITROSO-DI-N PROPYLAMINE	4100	UJ	4500	UJ	330	UJ				
HEXACHLOROETHANE	4100	U	4500	U	330	U				
NITROBENZENE	4100	U	4500	U	330	U				
ISOPHORONE	4100	U	4500	U	330	U				
2-NITROPHENOL	4100	U	4500	U	330	U				
2,4-DIMETHYLPHENOL	4100	U	4500	U	330	U				
BIS(2-CHLOROETHOXY)METHANE	4100	U	4500	U	330	U				
-DICHLOROPHENOL	4100	U	4500	U	330	U				
NAPHTHALENE	4100	U	4500	U	330	U				
4-CHLOROANILINE	4100	U	4500	U	330	U				
HEXACHLOROBUTADIENE	4100	UJ	4500	UJ	330	UJ				
CAPROLACTAM	4100	U	4500	U	330	U				
4-CHLORO-3-METHYLPHENOL	4100	U	4500	U	330	U				
2-METHYLNAPHTHALENE	4100	U	4500	U	330	U				
HEXACHLOROCYCLO-PENTADIEN	4100	UJ	4500	UJ	330	UJ				
2,4,6-TRICHLOROPHENOL	4100	U	4500	U	330	U				
2,4,5-TRICHLOROPHENOL	10000	U	11000	U	830	U				
1,1'-BIPHENYL	4100	U	4500	U	330	U				
2-CHLORONAPHTHALENE	4100	U	4500	U	330	U				
2-NITROANILINE	10000	UJ	11000	UJ	830	UJ				
DIMETHYLPHTHALATE	4100	U	4500	U	330	U				
2,6-DINITROTOLUENE	4100	U	4500	U	330	U				
ACENAPHTHYLENE	4100	U	4500	U	330	U				
3-NITROANILINE	10000	UJ	11000	UJ	830	UJ				
ACENAPHTHENE	4100	U	4500	U	330	U				

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0038		E0039		SBLK39					
Sampling Location :	X205		X206							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	3/31/2004		3/31/2004							
Time Sampled :	13:55		14:45							
%Moisture :	60		63		N/A					
pH :	7.9		7.6							
Dilution Factor :	5.0		5.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	10000	UJ	11000	UJ	830	UJ				
4-NITROPHENOL	10000	UJ	11000	UJ	830	UJ				
DIBENZOFURAN	4100	U	4500	U	330	U				
2,4-DINITROTOLUENE	4100	U	4500	U	330	U				
DIETHYLPHTHALATE	4100	U	4500	U	35	J				
FLUORENE	4100	U	4500	U	330	U				
4-CHLOROPHENYL-PHENYL ETHER	4100	U	4500	U	330	U				
4-NITROANILINE	10000	UJ	11000	UJ	830	UJ				
4,6-DINITRO-2-METHYLPHENOL	10000	U	11000	U	830	U				
N-NITROSO DIPHENYLAMINE	4100	U	4500	U	330	U				
4-BROMOPHENYL-PHENYLETHER	4100	U	4500	U	330	U				
HEXACHLOROBENZENE	4100	U	4500	U	330	U				
ATRAZINE	4100	U	4500	U	330	U				
PENTACHLOROPHENOL	10000	U	11000	U	830	U				
PHENANTHRENE	1500	J	2600	J	330	U				
NTHRACENE	1100	J	540	J	330	U				
CARBAZOLE	4100	U	4500	U	330	U				
DI-N-BUTYLPHTHALATE	4100	U	4500	U	54	J				
FLUORANTHENE	12000		6700		330	U				
PYRENE	15000		6500		330	U				
BUTYLBENZYLPHTHALATE	820	J	4500	U	330	U				
3,3'-DICHLOROBENZIDINE	4100	UJ	4500	UJ	330	UJ				
BENZO(A)ANTHRACENE	8500		3200	J	330	U				
CHRYSENE	10000		4300	J	330	U				
BIS(2-ETHYLHEXYL)PHTHALATE	13000		1500	J	330	U				
DI-N-OCTYLPHTHALATE	4100	U	4500	U	330	U				
BENZO(B)FLUORANTHENE	11000		4300	J	330	U				
BENZO(K)FLUORANTHENE	9600		3700	J	330	U				
BENZO(A)PYRENE	7800		4300	J	330	U				
INDENO(1,2,3-CD)-PYRENE	6000		3300	J	330	U				
DIBENZO(A,H)-ANTHRACENE	2000	J	870	J	330	U				
BENZO(G,H,I)PERYLENE	1300	J	1400	J	330	U				

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E0020		E0021		E0022		E0023		E0024	
Sampling Location :	X207		X208		X209		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/31/2004		3/31/2004	
Time Sampled :	13:00		13:00		15:40		07:50		08:10	
%Moisture :	35		35		37		9		18	
pH :	8.4		7.8		8.3		7.8		8.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	4.0	UJ	4.0	UJ	15	UJ	1.9	UJ	2.1	UJ
BETA-BHC	2.6	UJ	2.6	UJ	11	NJ	1.9	UJ	2.1	UJ
DELTA-BHC	2.6	UJ	2.6	UJ	2.7	UJ	1.9	UJ	2.3	J
GAMMA-BHC (LINDANE)	2.6	U	2.6	U	2.7	U	1.9	U	2.1	UJ
HEPTACHLOR	2.6	UJ	2.6	UJ	2.7	UJ	2.2	J	2.1	UJ
ALDRIN	2.6	NJ	2.8	NJ	2.7	UJ	1.9	UJ	2.1	UJ
HEPTACHLOR EPOXIDE	2.6	U	2.6	U	2.7	U	1.9	U	2.1	U
ENDOSU1FAN I	2.6	U	2.6	U	2.7	U	2.3	J	2.1	U
DIELDRIN	5.1	U	5.1	U	5.3	U	3.7	U	4.0	U
4,4'-DDE	5.1	U	5.1	U	5.2	U	3.6	U	4.0	U
ENDRIN	5.1	U	5.1	U	5.2	U	3.6	U	4.0	U
ENDOSULFAN II	5.1	U	5.1	U	10	J	3.6	U	4.0	U
4,4'-DDD	5.1	U	5.1	U	20	J	3.6	U	4.0	U
ENDOSULFAN SULFATE	5.1	U	12	J	22	J	3.6	U	4.0	U
4'-DDT	5.1	U	5.1	U	15	J	3.6	U	4.0	U
ETHOXYCHLOR	26	UJ	26	UJ	27	UJ	86	J	21	U
ENDRIN KETONE	5.1	U	5.1	U	5.2	U	3.6	U	4.0	U
ENDRIN ALDEHYDE	5.1	U	5.1	U	5.2	U	27	J	4.0	U
ALPHA-CHLORDANE	2.6	U	2.6	U	2.7	U	13	J	3.6	J
GAMMA-CHLORDANE	2.6	U	2.6	U	2.7	U	25	J	2.6	J
TOXAPHENE	260	U	260	U	270	U	190	U	210	U
AROCLOR-1016	51	U	51	U	52	U	36	U	40	U
AROCLOR-1221	100	U	100	U	110	U	74	U	82	U
AROCLOR-1232	51	U	51	U	52	U	36	U	40	U
AROCLOR-1242	51	U	51	U	52	U	36	U	40	U
AROCLOR-1248	51	U	51	U	52	U	36	U	40	U
AROCLOR-1254	51	U	51	U	52	U	40	J	40	U
AROCLOR-1260	51	U	51	U	52	U	36	U	40	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0025		E0026		E0027		E0028		E0029	
Sampling Location :	X105		X106		X201		X107		X108	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	08:50		09:15		10:10		10:15		19:25	
%Moisture :	22		30		34		23		51	
pH :	8.0		8.2		7.3		8.4		8.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	2.2	UJ	2.4	UJ	2.6	UJ	2.2	UJ	3.5	UJ
BETA-BHC	2.2	UJ	2.4	UJ	2.6	UJ	2.2	UJ	3.5	UJ
DELTA-BHC	2.2	UJ	2.4	UJ	2.6	UJ	2.2	UJ	3.5	UJ
GAMMA-BHC (LINDANE)	2.2	UJ	2.4	UJ-	2.6	UJ	2.2	UJ	3.5	UJ
HEPTACHLOR	2.2	UJ	2.4	UJ	4.9	J	2.2	UJ	3.5	UJ
ALDRIN	2.2	UJ	2.4	UJ	2.6	UJ	2.2	UJ	3.5	UJ
HEPTACHLOR EPOXIDE	2.2	U	2.4	J U	7.2	J	2.2	U	3.5	U
ENDOSU1FAN I	2.2	U	2.4	U	2.6	U	2.2	U	3.5	U
DIELDRIN	4.2	U	4.7	U	14	J	4.3	U	6.7	U
4,4'-DDE	4.2	U	16	J	7.2	J	4.3	U	6.7	U
ENDRIN	4.2	U	4.7	U	5.0	U	4.3	U	6.7	U
ENDOSULFAN II	4.2	U	6.0	J	5.0	U	4.3	U	6.7	U
4,4'-DDD	4.2	U	4.7	U	5.0	U	4.3	U	6.7	U
ENDOSULFAN SULFATE	4.2	U	50	J	58	J	4.3	U	6.7	U
' 4'-DDT	5.6	J	20	J	24	J	4.3	U	6.7	U
ıETHOXYCHLOR	22	U	24	U	26	U	22	U	35	U
ENDRIN KETONE	4.2	U	4.7	U	5.0	U	4.3	U	6.7	U
ENDRIN ALDEHYDE	4.2	U	4.7	U	5.0	U	4.3	U	6.7	U
ALPHA-CHLORDANE	2.2	U	2.4	U	2.6	U	2.2	U	3.5	U
GAMMA-CHLORDANE	2.2	U	6.3	J	2.6	U	2.2	U	3.5	U
TOXAPHENE	220	U	240	U	260	U	220	U	350	U
AROCLOR-1016	42	U	47	U	50	U	43	U	67	U
AROCLOR-1221	86	U	96	U	100	U	87	U	140	U
AROCLOR-1232	42	U	47	U	50	U	43	U	67	U
AROCLOR-1242	42	U	47	U	50	U	43	U	67	U
AROCLOR-1248	42	U	47	U	50	U	43	U	67	U
AROCLOR-1254	42	U	47	U	50	U	43	U	100	J
AROCLOR-1260	42	U	47	U	220	J	43	U	110	J

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0030		E0031		E0032		E0033		E0033MS	
Sampling Location :	X109		X203		X202		X110		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	10:35		11:50		11:35		11:20		11:20	
%Moisture :	18		41		14		24		24	
pH :	7.5		7.6		9.7		8.7		8.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	2.1	UJ	2.9	UJ	2.0	UJ	2.2	UJ	2.2	UJ
BETA-BHC	2.1	UJ	2.9	UJ	2.0	UJ	2.2	UJ	2.2	UJ
DELTA-BHC	2.1	UJ	2.9	UJ	2.0	UJ	2.2	UJ	2.2	UJ
GAMMA-BHC (LINDANE)	2.1	UJ	2.9	UJ	2.0	UJ	2.2	U	26	J
HEPTACHLOR	2.1	UJ	2.9	UJ	2.0	UJ	2.2	UJ	27	J
ALDRIN	2.1	UJ	2.9	UJ	2.0	UJ	2.2	UJ	25	J
HEPTACHLOR EPOXIDE	2.1	U	2.9	U	2.0	U	17	J	2.2	U
ENDOSU1FAN I	2.1	U	2.9	U	2.0	U	2.2	U	2.2	U
DIELDRIN	4.0	U	5.6	U	5.0	J	25	J	75	J
4,4'-DDE	4.0	U	5.6	U	3.8	U	11	J	9.9	J
ENDRIN	4.0	U	5.6	U	3.8	U	19	J	74	J
ENDOSULFAN II	4.0	U	5.6	U	3.8	U	4.3	U	4.3	U
4,4'-DDD	4.0	U	5.6	U	3.8	U	4.3	U	4.3	U
ENDOSULFAN SULFATE	4.0	U	24	J	22	J	4.3	U	4.4	J
4,4'-DDT	4.0	U	31	J	12	J	4.3	UJ	74	J
ETHOXYCHLOR	21	U	29	U	20	U	22	UJ	22	U
ENDRIN KETONE	4.0	U	5.6	U	3.8	U	4.3	U	4.3	U
ENDRIN ALDEHYDE	4.0	U	5.6	U	4.3	J	10	J	4.3	U
ALPHA-CHLORDANE	2.1	U	2.9	U	2.0	U	17	J	14	J
GAMMA-CHLORDANE	2.1	U	8.8	J	6.1	J	28	J	22	J
TOXAPHENE	210	U	290	U	200	U	220	U	220	U
AROCLOR-1016	40	U	56	U	38	U	43	U	43	U
AROCLOR-1221	82	U	110	U	78	U	88	U	88	U
AROCLOR-1232	40	U	56	U	38	U	43	U	43	U
AROCLOR-1242	40	U	56	U	38	U	43	U	43	U
AROCLOR-1248	40	U	56	U	38	U	43	U	43	U
AROCLOR-1254	40	U	56	U	38	U	430	J	43	U
AROCLOR-1260	40	U	56	U	38	U	300	J	180	J

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0033MSD		E0035		E0036		E0037		E0038	
Sampling Location :	X110		X204		X102		X101		X205	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	11:20		12:40		14:15		14:15		13:55	
%Moisture :	24		33		27		26		60	
pH :	8.7		8.3		7.9		8.3		7.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	2.2	UJ	2.5	U	2.3	U	2.3	U	4.3	U
BETA-BHC	2.2	UJ	2.5	UJ	2.3	UJ	2.3	UJ	4.3	UJ
DELTA-BHC	2.2	UJ	2.5	UJ	2.3	UJ	2.3	UJ	4.3	UJ
GAMMA-BHC (LINDANE)	26	J	2.5	U	2.3	U	2.3	U	4.3	U
HEPTACHLOR	26	J	2.6	J	2.3	UJ	2.3	UJ	4.3	UJ
ALDRIN	24	J	2.5	UJ	2.3	UJ	2.3	UJ	4.3	UJ
HEPTACHLOR EPOXIDE	2.2	U	11	J	2.3	U	2.3	U	6.0	J
ENDOSU1FAN I	2.2	U	4.6	J	2.3	U	2.3	U	4.3	U
DIELDRIN	73	J	12	J	4.5	U	4.5	U	19	J
4,4'-DDE	9.7	J	11	J	4.5	U	4.5	U	20	J
ENDRIN	71	J	12	J	4.5	U	4.5	U	8.3	U
ENDOSULFAN II	4.3	U	9.8	J	4.5	U	4.5	U	8.3	U
4,4'-DDD	4.3	U	22	J	4.5	U	4.5	U	19	J
ENDOSULFAN SULFATE	4.3	U	4.9	U	4.5	U	4.5	U	8.3	U
4,4'-DDT	78	J	38	J	9.7	J	51	J	74	J
METHOXYCHLOR	22	U	51	J	23	UJ	23	UJ	43	UJ
ENDRIN KETONE	4.3	U	4.9	U	4.5	U	4.5	U	8.3	U
ENDRIN ALDEHYDE	4.3	U	4.9	U	4.5	U	4.5	U	8.3	U
ALPHA-CHLORDANE	13	J	2.5	U	2.3	U	2.3	U	4.3	U
GAMMA-CHLORDANE	18	J	7.6	J	2.3	U	2.3	U	21	J
TOXAPHENE	220	U	250	U	230	U	230	U	430	U
AROCLOR-1016	43	U	49	U	45	U	45	U	83	U
AROCLOR-1221	88	U	100	U	92	U	91	U	170	U
AROCLOR-1232	43	U	49	U	45	U	45	U	83	U
AROCLOR-1242	43	U	49	U	45	U	45	U	83	U
AROCLOR-1248	43	U	49	U	45	U	45	U	83	U
AROCLOR-1254	190	J	49	U	45	U	45	U	83	U
AROCLOR-1260	170	J	49	U	45	U	45	U	83	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0020
Site : CARLSTROM LANDFILL
Lab. : ENVSYS
Reviewer :
ate :

Sample Number :	E0039		PBLK93		PBLK95					
Sampling Location :	X206									
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	3/31/2004									
Time Sampled :	14:45									
%Moisture :	63		N/A		N/A					
pH :	7.6		6.0		6.0					
Dilution Factor :	1.0		1.0		1.0					
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	4.6	UJ	1.7	UJ	1.7	UJ				
BETA-BHC	4.6	UJ	1.7	UJ	1.7	UJ				
DELTA-BHC	4.6	UJ	1.7	UJ	1.7	UJ				
GAMMA-BHC (LINDANE)	4.6	U	1.7	U	1.7	UJ				
HEPTACHLOR	4.6	UJ	1.7	UJ	1.7	UJ				
ALDRIN	4.6	UJ	1.7	UJ	1.7	UJ				
HEPTACHLOR EPOXIDE	17	J	1.7	U	1.7	U				
ENDOSU1FAN I	4.6	U	1.7	U	1.7	U				
DIELDRIN	12	J	3.3	U	3.3	U				
4,4'-DDE	21	J	3.3	U	3.3	U				
ENDRIN	11	J	3.3	U	3.3	UJ				
ENDOSULFAN II	8.9	U	3.3	U	3.3	U				
4,4'-DDD	8.9	U	3.3	U	3.3	U				
ENDOSULFAN SULFATE	8.9	U	3.3	U	3.3	U				
4,4'-DDT	8.9	U	3.3	U	3.3	UJ				
ETHOXYCHLOR	46	UJ	17	UJ	17	U				
ENDRIN KETONE	8.9	U	3.3	U	3.3	U				
ENDRIN ALDEHYDE	8.9	U	3.3	U	3.3	U				
ALPHA-CHLORDANE	7.6	U	1.7	U	1.7	U				
GAMMA-CHLORDANE	37	J	1.7	U	1.7	U				
TOXAPHENE	460	U	170	U	170	U				
AROCLOR-1016	89	U	33	U	33	U				
AROCLOR-1221	180	U	67	U	67	U				
AROCLOR-1232	89	U	33	U	33	U				
AROCLOR-1242	89	U	33	U	33	U				
AROCLOR-1248	89	U	33	U	33	U				
AROCLOR-1254	89	U	33	U	33	U				
AROCLOR-1260	89	U	33	U	33	U				

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-3-04

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: CARLSTROM LANDFILL (IL)

CASE NUMBER: 32724 SDG NUMBER: E0020

Number and Type of Samples: 19 (SOIL)

Sample Numbers: E0020-33, 35-39

Laboratory: ENVIROSYSTEMS Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SM-5J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E0020

Laboratory Name ENVIROSYSTEMS, INC. Laboratory Code ENVSYS

Contract No. 68W03019 Case No. 32724

Analysis Price ~~450.00~~ 369.00 SDG Turnaround 21 DAYS

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0020	7) E0026	13) E0032	19) E0039
2) E0021	8) E0027	14) E0033	~~20)~~
3) E0022	9) E0028	15) E0035	21)
4) E0023	10) E0029	16) E0036	22)
5) E0024	11) E0030	17) E0037	23)
6) E0025	12) E0031	18) E0038	~~24)~~ NC 4/1/04

E0020	E0039
First Sample in SDG	Last Sample in SDG
4-1-04	4-1-2004
First Sample Receipt Date	Last Sample Receipt Date

Note: *There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature Natasha Alesti Date 4/1/04

Version 2.0

EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 32724
DAS No:
SDG No: E0020
L

Date Shipped: 3/31/2004	Chain of Custody Record	Sampler Signature: [signature]	For Lab Use Only
Carrier Name: UPS	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: 68W03019
Airbill: 1Z6215892210024795	1 GERALD W ZUMAN 3/31/04 1600	Barbara Crook 4/1/04 9:30	Unit Price: A
Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2		Transfer To:
	3		Lab Contract No: NC 4/1/04
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0020	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278074 (Ice Only), 5-278075 (Ice Only) (2)	X207	S: 3/30/2004 13:00	ME0020	INTACT
E0021	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278076 (Ice Only), 5-278077 (Ice Only) (2)	X208	S: 3/30/2004 13:00	ME0021	
E0022	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278078 (Ice Only), 5-278079 (Ice Only) (2)	X209	S: 3/30/2004 15:40	ME0022	
E0023	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278081 (Ice Only), 5-278082 (Ice Only) (2)	X103	S: 3/31/2004 7:50	ME0023	
E0024	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278085 (Ice Only), 5-278086 (Ice Only) (2)	X104	S: 3/31/2004 8:10	ME0024	
E0025	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278089 (Ice Only), 5-278090 (Ice Only) (2)	X105	S: 3/31/2004 8:50	ME0025	
E0026	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278093 (Ice Only), 5-278094 (Ice Only) (2)	X106	S: 3/31/2004 9:15	ME0026	
E0027	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278103 (Ice Only), 5-278104 (Ice Only) (2)	X201	S: 3/31/2004 10:10	ME0027	
E0028	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278107 (Ice Only), 5-278108 (Ice Only) (2)	X107	S: 3/31/2004 10:15	ME0028	
E0029	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278111 (Ice Only), 5-278112 (Ice Only) (2)	X108	S: 3/31/2004 19:25	ME0029	

C12

Shipment for Case Complete? Y/N Yes	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: 27983
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? ✓	Shipment Iced? ✓

TR Number: 5-314975591-033104-0003

LABORATORY COPY

PR provides prelim esults. Requests for preliminary results will increase analytical costs.
Send Copy to: San Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record

Case No: 32724
DAS No:
SDG No: E0030

L

Date Shipped:	3/31/2004
Carrier Name:	UPS
Airbill:	1Z6215892210024795
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gerald Willman	3/31/04 1600	Barbara Crook	4/1/04 9:30
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W03019
Unit Price: A
Transfer To:
Lab Contract No: NO 4/1/04
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0030	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278115 (Ice Only), 5-278116 (Ice Only) (2)	X109	S: 3/31/2004	10:35	ME0030	INTACT
E0031	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278119 (Ice Only), 5-278120 (Ice Only) (2)	X203	S: 3/31/2004	11:50	ME0031	
E0032	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278123 (Ice Only), 5-278124 (Ice Only) (2)	X202	S: 3/31/2004	11:35	ME0032	
E0033	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278127 (Ice Only), 5-278128 (Ice Only) (2)	X110	S: 3/31/2004	11:20	ME0033	
E0035	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278131 (Ice Only), 5-278132 (Ice Only) (2)	X204	S: 3/31/2004	12:40	ME0035	
E0036	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278135 (Ice Only), 5-278136 (Ice Only) (2)	X102	S: 3/31/2004	14:15	ME0036	
E0037	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278139 (Ice Only), 5-278140 (Ice Only) (2)	X101	S: 3/31/2004	14:15	ME0037	
E0038	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278143 (Ice Only), 5-278144 (Ice Only) (2)	X205	S: 3/31/2004	13:55	ME0038	
E0039	Soil/Sediment/ Jerry Willman	L/G	VOA (21)	5-278147 (Ice Only), 5-278148 (Ice Only) (2)	X206	S: 3/31/2004	14:45	ME0039	

013

Shipment for Case Complete? ~~N~~ yes	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4 °C	Chain of Custody Seal Number: 27983
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? L / Shipment Iced?
VOA = CLP TCL Volatiles				

TR Number: 5-314975591-033104-0003

PR provides prelim esults. Requests for preliminary results will increase analytical costs.
Send Copy to: Sar Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 70 64-9348 Fax 703/264-9222

LABORATORY COPY

EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 32724
DAS No:
SDG No: BC 4/1/04 ~~E0020~~ E0020

L

Date Shipped:	3/31/2004
Carrier Name:	UPS
Airbill:	1Z6215892210024786
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Gerald E Willman

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 GERALD WILLMAN	3/31/04 1600	[illegible] Crook	4/1/04 9:30
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W03019
Unit Price: A
Transfer To:
Lab Contract No: NC 4/1/04
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0020	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278065 (Ice Only) (1)	X207	S: 3/30/2004	13:00	ME0020	INTACT
E0021	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278068 (Ice Only) (1)	X208	S: 3/30/2004	13:00	ME0021	
E0022	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278071 (Ice Only) (1)	X209	S: 3/30/2004	15:40	ME0022	
E0023	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278080 (Ice Only) (1)	X103	S: 3/31/2004	7:50	ME0023	
E0024	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278084 (Ice Only) (1)	X104	S: 3/31/2004	8:10	ME0024	
E0025	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278088 (Ice Only) (1)	X105	S: 3/31/2004	8:50	ME0025	
E0026	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278092 (Ice Only) (1)	X106	S: 3/31/2004	9:15	ME0026	
E0027	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278102 (Ice Only) (1)	X201	S: 3/31/2004	10:10	ME0027	
E0028	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278106 (Ice Only) (1)	X107	S: 3/31/2004	10:15	ME0028	
E0029	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278110 (Ice Only) (1)	X108	S: 3/31/2004	19:25	ME0029	

014

Shipment for Case Complete? yes	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): Gerald E Willman	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: 27982
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC

TR Number: 5-314975591-033104-0002

PR provides prelimi esults. Requests for preliminary results will increase analytical costs.
Send Copy to: San., Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY

EPA

USEPA Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record

Case No: 32724
DAS No:
SDG No: EC020

L

Date Shipped:	3/31/2004
Carrier Name:	UPS
Airbill:	1Z6215892210024786
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gerald Willman	3/31/04 1600	[signature]	4/1/04 9:30
2			
3			
4			

For Lab Use Only

Lab Contract No: 4860309
Unit Price: A
Transfer To: ~~NC 4/1/04~~
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0030	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278114 (Ice Only) (1)	X109	S: 3/31/2004	10:35	ME0030	INTACT
E0031	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278118 (Ice Only) (1)	X203	S: 3/31/2004	11:50	ME0031	
E0032	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278122 (Ice Only) (1)	X202	S: 3/31/2004	11:35	ME0032	
E0033	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278126 (Ice Only) (1)	X110	S: 3/31/2004	11:20	ME0033	
E0035	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278130 (Ice Only) (1)	X204	S: 3/31/2004	12:40	ME0035	
E0036	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278134 (Ice Only) (1)	X102	S: 3/31/2004	14:15	ME0036	
E0037	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278138 (Ice Only) (1)	X101	S: 3/31/2004	14:15	ME0037	
E0038	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278142 (Ice Only) (1)	X205	S: 3/31/2004	13:55	ME0038	
E0039	Soil/Sediment/ Jerry Willman	L/G	BNA/PEST (21)	5-278146 (Ice Only) (1)	X206	S: 3/31/2004	14:45	ME0039	

015

SDG Final Sample

Shipment for Case Complete? ~~N~~ yes	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: 27982
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? — Shipment Iced? —

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC

TR Number: 5-314975591-033104-0002

PR provides prelim[illegible]sults. Requests for preliminary results will increase analytical costs.
Send Copy to: San[illegible] Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 70[illegible]4-9348 Fax 703/264-9222

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 32724 SDG #: E0020 REGION: V

CONTRACT: 68W03019

DATE SAMPLES RECEIVED AT LABORATORY: 1 APRIL 2004

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	MATRIX	VOA pH
E0020	04031080	VOA, BNA, PEST	SOIL	n/a
E0021	04031081	VOA, BNA, PEST	SOIL	n/a
E0022	04031082	VOA, BNA, PEST	SOIL	n/a
E0022DL	04031082	BNA	SOIL	n/a
E0023	04031083	VOA, BNA, PEST	SOIL	n/a
E0023RE	04031083	VOA	SOIL	n/a
E0024	04031084	VOA, BNA, PEST	SOIL	n/a
E0025	04031085	VOA, BNA, PEST	SOIL	n/a
E0026	04031086	VOA, BNA, PEST	SOIL	n/a
E0027	04031087	VOA, BNA, PEST	SOIL	n/a
E0028	04031088	VOA, BNA, PEST	SOIL	n/a
E0029	04031089	VOA, BNA, PEST	SOIL	n/a
E0029DL	04031089	VOA	SOIL	n/a
E0030	04031090	VOA, BNA, PEST	SOIL	n/a
E0030RE	04031090	VOA	SOIL	n/a
E0031	04031091	VOA, BNA, PEST	SOIL	n/a
E0032	04031092	VOA, BNA, PEST	SOIL	n/a
E0033	04031093	VOA, BNA, PEST	SOIL	n/a
E0035	04031094	VOA, BNA, PEST	SOIL	n/a
E0035RE	04031094	VOA	SOIL	n/a
E0036	04031095	VOA, BNA, PEST	SOIL	n/a
E0037	04031096	VOA, BNA, PEST	SOIL	n/a
E0038	04031097	VOA, BNA, PEST	SOIL	n/a
E0038RE	04031097	VOA	SOIL	n/a
E0039	04031098	VOA, BNA, PEST	SOIL	n/a

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0033.

Samples for this contract are analyzed by EPA SOW OLM04.3 for multi-media multi-concentration organics.

The cooler temperatures were measured to be 4 degrees C.

VOLATILES SECTION:

The volatile analysis was performed on a Hewlett Packard 5973 MSD using a Restek RTX-624 20 meter column with an inner diameter of 0.18 mm and a 1 micron film thickness. The trap used with the autosampler is a 30 cm OI #10 analytical trap packed with Tenax/silica gel/cms.

Only a portion of the samples in this case were received as Encore samples. The following samples were received as Encore samples: E0023, E0024, E0025, E0026, E0028, E0029, E0030, E0033, E0036 and E0037.

Samples E0023, E0030, E0035 and E0038 required reanalysis due to quality control noncompliance regarding either surrogate recoveries or internal standard areas. The reanalysis of each sample exhibited similar quality control noncompliance and both stes of data are included in this report as billable analyses.

The initial analysis of Encore sample E0029 had a concentration of acetone above the calibration range. The diluted reanalysis aliquoted from a sample jar did not indicate the prescence of acetone.

All other QC criteria were met for all samples in this SDG.

Each of the ten MS/MSD recoveries and each of the five MS/MSD RPD values were within the EPA advisory QC limits.

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or low response: VSTD200F8, VSTD050FZ, VSTD050F7, VSTD050FB, E0022 and E0039.

SEMIVOLATILES SECTION:

The semi-volatile analysis was performed on a Hewlett Packard 5973 MSD using an HP-5MS 30 meter column with an inner diameter of 0.25 mm and a 0.25 micron film thickness.

Several of the soil extracts for this SDG were dark and oily. Sample E0023 could only be concentrated to a 5mL final volume. Samples E0020, E0021, E0025, E0027, E0029, e0032, E0035, E0038 and E0039 were initially analyzed at fivefold dilutions. Sample E0022 required a twentyfold dilution due to high concentrations of target compounds.

All other QC criteria were met for all samples in this SDG.

One of the eighteen MS/MSD recoveries was outside the EPA advisory QC limits. Each of the nine MS/MSD RPD values was within the EPA advisory QC limits.

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or low response: E0020, E0021, E0022, E022DL, E0023, E0024, E0026, E0027, E0028, E0029, E0030, E0031, E0032, E0033, E0035, E0036, E0037, E0038 and E0039.

PESTICIDE/AROCLOR SECTION:

The primary analytical column was a Restek RTXCLP, 0.53mm ID, 0.50 micron film thickness. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

Many of the samples had surrogate recoveries above the EPA advisory QC limit reported due to matrix interference.

The retention time for TCX was slightly outside of the retention time window on the RTXCLP column only in the following analyses: E0036, PIBLK20, INDAM09, INDBM09, PBLK93, E0020, E0021 and E0023.

beta-BHC, delta-BHC and aldrin retention times were outside the retention time windows in continuing calibration standard INDBM09 on the RTXCLP column.

Continuing calibration standards INDAM10, INDBM10 and PEM14 had noncompliant %D values.

The samples in this SDG had contaminated sample matrices that caused repeated QC failures. The samples were analyzed several times with similar QC noncompliance on the continuing calibration standards.

Endrin recovery was above the QC limit in the GPC calibration verification performed on 4/2/04. Three of the six recoveries were above the QC limit in the GPC calibration verification performed on 4/12/04.

All other QC criteria were met for all samples in this SDG.

Two of the twelve MS/MSD recoveries were outside the EPA advisory QC limits. Each of the six MS/MSD RPD values was within the EPA advisory QC limits.

Manual interations were performed on the following samples, blanks and standards due to baseline correction and/or peak resolution: PIBLK01, PIBLK04, PEM04, PEM05, PEM06, PEM08, PEM12, PEM13, PEM14, AR125402, INDBM02, INDAM03, INDBM03, INDBM04, INDBM09, INDAM10, INDBM10, PBLK93, PBLK95, E0025, E0028, E0029, E0030, E0033MS, E0033MSD and E0036.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE AND IN THE COMPUTER-READABLE DATA SUBMITTED ON DISKETTE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS/HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

_____ DATE: 5/6/04

William Brewington
Organics Section Manager

23 April 2004

ALKANE NARRATIVE REPORT
Report date : 04/15/2004
SDG: E0020

Client Sample ID: E0021 Lab Sample ID: 04041081 File ID: H73FS544

Compound	RT	Est. Conc.	Q
Cyclohexane, 1,2,4-trimethyl-	8.44	16	J
Decane, 4-methyl-	10.30	120	J
Cyclohexane, butyl-	10.54	30	J

Client Sample ID: E0023RE Lab Sample ID: 04041083RE File ID: H73FS594

Compound	RT	Est. Conc.	Q
Hexane	3.38	32	J

Client Sample ID: E0029 Lab Sample ID: 04041089 File ID: H73FS596

Compound	RT	Est. Conc.	Q
Cyclohexane, 1,2-dimethyl-	7.68	16	J
Cyclohexane, 2-propenyl-	8.19	39	J
Cyclohexane, 1,2,4-trimethyl-,(1.aplha.	8.44	36	J

BNA ALKANE NARRATIVE REPORT
Report date : 04/20/2004
SDG: E0020

Client Sample ID: E0036 Lab Sample ID: 04041095 File ID: H73GQ385

Compound	RT	Est. Conc.	Q
Tridecane	25.34	190	J
Heptacosane	26.84	320	J
Heneicosane	28.24	1100	J
13-Methylheptacosane	29.57	1600	J
Eicosane	31.16	720	J

Client Sample ID: E0037 Lab Sample ID: 04041096 File ID: H73GQ386

Compound	RT	Est. Conc.	Q
Pentacosane	25.34	170	J
Eicosane	26.84	270	J
Hexadecane	27.55	200	J
Nonacosane	28.24	920	J
Eicosane	29.57	1400	J
Tritriacontane	31.16	670	J

Client Sample ID: E0030 Lab Sample ID: 04041090 File ID: H73GQ387

Compound	RT	Est. Conc.	Q
Tridecane	28.24	220	J

Client Sample ID: E0026 Lab Sample ID: 04041086 File ID: H73GQ389

Compound	RT	Est. Conc.	Q
Undecane, 6-ethyl-	18.01	200	J
Pentacosane	26.84	320	J
Dotriacontane	28.24	1500	J
Cyclotetracosane	28.31	910	J
Hentriacontane	29.58	1300	J

Client Sample ID: E0028 Lab Sample ID: 04041088 File ID: H73GQ390

Compound	RT	Est. Conc.	Q
Pentacosane	26.85	280	J
Heptacosane	28.24	1500	J
Heptacosane	29.58	1600	J

Client Sample ID: E0031 Lab Sample ID: 04041091 File ID: H73GQ391

Compound	RT	Est. Conc.	Q
Heptadecane	17.95	380	J
Hexadecane, 2,6,11,15-tetramethyl-	18.01	610	J
Nonadecane	20.06	350	J
Hexatriacontane	25.35	440	J
Eicosane	28.25	810	J
Nonadecane	29.58	690	J

Client Sample ID: E0024 Lab Sample ID: 04041084 File ID: H73GQ392

Compound	RT	Est. Conc.	Q
Triacontane	28.24	1200	J
Octacosane	29.58	540	J

Client Sample ID: E0035 Lab Sample ID: 04041094 File ID: H73GQ393

Compound	RT	Est. Conc.	Q
Heptadecane	17.95	1100	J
Pentadecane, 2,6,10,14-tetramethyl-	18.01	3100	J
Octadecane	19.03	940	J
Pentadecane	20.06	1100	J
Heptadecane	21.04	620	J
Docosane	21.97	750	J
Heptadecane	26.85	920	J
Pentacosane	28.25	2200	J

Client Sample ID: E0025 Lab Sample ID: 04041085 File ID: H73GQ402

Compound	RT	Est. Conc.	Q
Tricosane	28.22	2400	J
Hentriacontane	29.56	2700	J

Client Sample ID: E0038 Lab Sample ID: 04041097 File ID: H73GQ404

Compound	RT	Est. Conc.	Q
Nonacosane	26.83	2200	J
Hexadecane	28.23	7100	J
Dotriacontane	29.56	3700	J

Client Sample ID: E0020 Lab Sample ID: 04041080 File ID: H73GQ405

Compound	RT	Est. Conc.	Q
Heptane, 2,6-dimethyl-	17.99	730	J
Hexacosane	28.23	3100	J
Tricosane	29.57	1500	J

Client Sample ID: E0027 Lab Sample ID: 04041087 File ID: H73GQ406

Compound	RT	Est. Conc.	Q
Heptacosane	28.23	2500	J
Nonacosane	29.57	2400	J

Client Sample ID: E0022 Lab Sample ID: 04041082 File ID: H73GQ408

Compound	RT	Est. Conc.	Q
Hexadecane, 2,6,11,15-tetramethyl-	17.99	5000	J

Client Sample ID: E0021 Lab Sample ID: 04041081 File ID: H73GQ409

Compound	RT	Est. Conc.	Q
Tricosane	28.24	2100	J
Dotriacontane	29.57	1000	J

Client Sample ID: E0022DL Lab Sample ID: 04041082DL File ID: H73GQ411

Compound	RT	Est. Conc.	Q
Heptadecane	18.00	4700	JD

Client Sample ID: E0023 Lab Sample ID: 04041083 File ID: H73GQ412

Compound	RT	Est. Conc.	Q
Undecane, 2,6-dimethyl-	11.76	1200	J

Envirosystems, Inc.

From: Brown. Jessica [Jessica.Brown@dyncorp.com]
Sent: Thursday, April 08, 2004 11:56 AM
To: ENVSYS (E-mail)
Cc: Bob Casper (E-mail); Carlene Thomas (E-mail); Howard Pham (E-mail)
Subject: Region 05 | Case 32724 | Lab ENVSYS | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Hi Natasha,

Per Region 5, please use sample E0033 as laboratory QC for Case 32724 and note all issues in the Case narrative.

Thanks,
Jessica

-----Original Message-----
From: Thomas.Carlene@epamail.epa.gov [mailto:Thomas.Carlene@epamail.epa.gov]
Sent: Thursday, April 08, 2004 12:44 PM
To: Brown, Jessica
Subject: Re: Region 05 | Case 32724 Lab ENVSYS | Issue Lab QC

Jessica -

Please proceed with recommendation per Bob Casper and make a note in the case narrative.

Thanks,

Carlene

-----Original Message-----
From: Brown, Jessica
Sent: Thursday, April 08, 2004 11:12 AM
To: Carlene Thomas (E-mail)
Subject: Region 05 Case 32724 Lab ENVSYS | Issue Lab QC

Hi Carlene,

The following is the response from Bob Casper, IL-EPA. Please advise on how the lab is to proceed.

Thanks!
Jessica

-----Original Message-----
From: Bob Casper [mailto:Bob.Casper@epa.state.il.us]
Sent: Thursday, April 08, 2004 10:37 AM
To: Brown, Jessica
Subject: Re: Region 05 Case 32724 | Lab ENVSYS | Issue Lab QC

Jessica:
Sample E0033 is the sample that should be used.
-Bob.

-----Original Message-----
From: Mark Wagner [mailto:Mark.Wagner@epa.state.il.us]
Sent: Thursday, April 08, 2004 10:42 AM
To: Brown, Jessica
Subject: Re: Region 05 Case 32724 Lab ENVSYS | Issue Lab QC

Hello,

2215

Mark Weber is checking on this issue.

Thanks,
Mark Wagner

-----Original Message-----
From: Brown, Jessica
Sent: Thursday, April 08, 2004 9:23 AM
To: Mark Wagner (E-mail 2); Bob Casper (E-mail); Carlene Thomas (E-mail
Subject: Region 05 | Case 32724 | Lab ENVSYS | Issue Lab QC

ENVSYS is waiting for the resolution to the issue below.

Please advise on how the lab is to proceed.

Thanks!
Jessica

-----Original Message-----
From: Brown, Jessica
Sent: Wednesday, April 07, 2004 2:52 PM
To: Mark Wagner (E-mail 2); Bob Casper (E-mail)
Cc: Carlene Thomas (E-mail)
Subject: Region 05 | Case 32724 | Lab ENVSYS | Issue Lab QC

Per ENVSYS, the sampler did not select a QC for Case 32724 SDG E0020. The lab has selected sample E0028 for MS/MSD for all fractions. Please advise.

Thanks!
Jessica

-----Original Message-----
From: Envirosystems, Inc. [mailto:envsystems@worldnet.att.net]
Sent: Wednesday, April 07, 2004 2:11 PM
To: Brown, Jessica
Subject: RE: Case 32724 Lab QC

Hi Jessica,
Disregard that email I just sent you. The lab did receive Encore VOA samples for this Case.

Thanks,
Natasha

-----Original Message-----
From: Brown, Jessica
Sent: Wednesday, April 07, 2004 11:50 AM
To: ENVSYS (E-mail
Subject: RE: Case 32724 Lab QC

Hi Natasha,

Did you receive Encore VOA samples for this Case?

Thanks!
Jessica

-----Original Message-----
From: Envirosystems, Inc. [mailto:envsystems@worldnet.att.net]
Sent: Wednesday, April 07, 2004 11:24 AM
To: Brown, Jessica
Subject: Case 32724 Lab QC

Hi Jessica,

The sampler did not select a QC for Case 32724 SDG E0020. The lab has selected sample E0028 for MS MSD for all fractions. Please advise.

Thanks,
Natasha

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.651 / Virus Database: 417 - Release Date: 4/5/2004

Incoming mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.651 / Virus Database: 417 - Release Date: 4/5/2004

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKFZ	94	78	104		0
02	E0020	97	86	97		0
03	E0021	103	83	96		0
04	E0022	114	85	91		0
05	VBLKF7	98	92	96		0
06	E0023	145*	61	103		1
07	E0024	104	94	106		0
08	E0025	103	93	103		0
09	E0026	106	82	101		0
10	VBLKFA	108	82	96		0
11	E0023RE	145*	67	101		1
12	E0028	131	65	99		0
13	E0029	123	65	108		0
14	VIBLKFA	98	82	96		0
15	E0030	129	52*	100		1
16	E0033	102	90	106		0
17	E0036	127	60	97		0
18	E0037	118	73	103		0
19	E0033MS	105	86	102		0
20	E0033MSD	97	82	98		0
21	E0027	108	80	99		0
22	E0031	104	94	105		0
23	E0032	119	83	103		0
24	E0035	127	61	99		0
25	E0038	115	57*	100		1
26	VBLKFB	96	90	98		0
27	E0030RE	125	59	93		0
28	E0035RE	160*	56*	95		2
29	VIBLKFB	98	92	98		0
30	E0038RE	131	52*	92		1

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	E0039	100	79	93		0
02	E0029DL	108	71	102		0
03	VHBLKFB	98	88	102		0
04						
05						
06						
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix Spike - EPA Sample No.: E0033 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	59	0.0	41	69	59-172
Trichloroethene	59	0.0	43	73	62-137
Benzene	59	0.0	48	81	66-142
Toluene	59	0.0	56	95	59-139
Chlorobenzene	59	0.0	52	88	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	60	43	72	4	22	59-172
Trichloroethene	60	46	77	5	24	62-137
Benzene	60	52	87	7	21	66-142
Toluene	60	59	98	3	21	59-139
Chlorobenzene	60	54	90	2	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFZ

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Lab File ID: H73FS542 Lab Sample ID: VBLK0407

Date Analyzed: 04/07/04 Time Analyzed: 1028

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0020	04041080	H73FS543	1104
02	E0021	04041081	H73FS544	1140
03	E0022	04041082	H73FS545	1216
04				
05				
06				
07				
08				
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKF7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Lab File ID: H73FS572 Lab Sample ID: VBLK0407

Date Analyzed: 04/07/04 Time Analyzed: 1749

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0023	04041083	H73FS574	1907
02	E0024	04041084	H73FS575	1945
03	E0025	04041085	H73FS576	2024
04	E0026	04041086	H73FS577	2103
05				
06				
07				
08				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Lab File ID: H73FS593 Lab Sample ID: VBLK0408

Date Analyzed: 04/08/04 Time Analyzed: 1148

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0023RE	04041083RE	H73FS594	1226
02	E0028	04041088	H73FS595	1305
03	E0029	04041089	H73FS596	1344
04	VIBLKFA	VIBLK0408	H73FS597	1423
05	E0030	04041090	H73FS598	1502
06	E0033	04041093	H73FS599	1540
07	E0036	04041095	H73FS600	1619
08	E0037	04041096	H73FS601	1657
09	E0033MS	04041093MS	H73FS602	1734
10	E0033MSD	04041093MSD	H73FS603	1813
11	E0027	04041087	H73FS604	1852
12	E0031	04041091	H73FS605	1930
13	E0032	04041092	H73FS606	2009
14	E0035	04041094	H73FS607	2048
15	E0038	04041097	H73FS608	2127
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29				
30				

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Lab File ID: H73FS613 Lab Sample ID: VBLK0409

Date Analyzed: 04/09/04 Time Analyzed: 1054

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0030RE	04041090RE	H73FS614	1130
02	E0035RE	04041094RE	H73FS615	1206
03	VIBLKFB	VIBLK0409	H73FS616	1242
04	E0038RE	04041097RE	H73FS617	1317
05	E0039	04041098	H73FS618	1353
06	E0029DL	04041089DL	H73FS619	1428
07	VHBLKFB	VHBLK0401	H73FS620	1504
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09				
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COMMENTS:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0020

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041080

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS543

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 35 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15 ~~7~~	JB
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0020

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041080

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS543

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 35 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0020

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041080

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS543

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 35 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	9.79	12	J
2.		UNKNOWN	10.01	18	J
3.		UNKNOWN	11.45	150	J
4.		UNKNOWN	12.41	240	J
5.		UNKNOWN	12.58	260	J
6.		UNKNOWN	13.42	250	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0021

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041081

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS544

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 35 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15 ~~7~~	JB U
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0021

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041081

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS544

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 35 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0021

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041081

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS544

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 35 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.24	16	J
2.		UNKNOWN	8.90	17	J
3.		UNKNOWN	9.16	16	J
4.		UNKNOWN	9.35	28	J
5.		UNKNOWN	9.43	20	J
6.		UNKNOWN	9.46	29	J
7.		UNKNOWN	9.79	37	J
8.		UNKNOWN	10.01	90	J
9.	138-86-3	LIMONENE	10.57	94	NJ
10.		UNKNOWN	10.76	54	J
11.		UNKNOWN	11.04	260	J
12.		UNKNOWN	11.32	150	J
13.		UNKNOWN	11.54	310	J
14.		UNKNOWN	11.96	670	J
15.		UNKNOWN	12.58	940	J
16.		UNKNOWN	13.42	780	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0022

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS545

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 37 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl Chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	16	U
79-20-9	Methyl Acetate	16	U
75-09-2	Methylene Chloride	16 ~~7~~	JB
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	tert-Butyl Methyl Ether	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
110-82-7	Cyclohexane	16	U
56-23-5	Carbon Tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0022

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS545

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 37 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	16	U
108-87-2	Methylcyclohexane	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	6	J
100-41-4	Ethylbenzene	16	U
1330-20-7	Xylene (Total)	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	3	J
95-50-1	1,2-Dichlorobenzene	8	J
96-12-8	1,2-Dibromo-3-chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0022

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS545

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 37 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	9.79	47	J
2.		UNKNOWN	10.33	83	J
3.		UNKNOWN	12.09	980	J
4.		UNKNOWN	12.41	530	J
5.		UNKNOWN	12.88	1100	J
6.					
7.					
8.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0023

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083

Sample wt/vol: 3.6(g/mL) G Lab File ID: H73FS574

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 9 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	24	B
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15	U
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0023

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083

Sample wt/vol: 3.6(g/mL) G Lab File ID: H73FS574

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 9 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0023

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083

Sample wt/vol: 3.6 (g/mL) G Lab File ID: H73FS574

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 9 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	1.84	13	J
2.	75-18-3	DIMETHYL SULFIDE	2.31	47	NJ
3.		UNKNOWN	3.39	19	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0023RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083RE

Sample wt/vol: 3.3(g/mL) G Lab File ID: H73FS594

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 9 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	17	U
74-87-3	Chloromethane	17	U
75-01-4	Vinyl Chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-69-4	Trichlorofluoromethane	17	U
75-35-4	1,1-Dichloroethene	17	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	U
67-64-1	Acetone	32	
75-15-0	Carbon Disulfide	17	U
79-20-9	Methyl Acetate	17	U
75-09-2	Methylene Chloride	17	U
156-60-5	trans-1,2-Dichloroethene	17	U
1634-04-4	tert-Butyl Methyl Ether	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	17	U
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
110-82-7	Cyclohexane	17	U
56-23-5	Carbon Tetrachloride	17	U
71-43-2	Benzene	17	U
107-06-2	1,2-Dichloroethane	17	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0023RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083RE

Sample wt/vol: 3.3(g/mL) G Lab File ID: H73FS594

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 9 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	17	U
108-87-2	Methylcyclohexane	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-Pentanone	17	U
108-88-3	Toluene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	17	U
591-78-6	2-Hexanone	17	U
124-48-1	Dibromochloromethane	17	U
106-93-4	1,2-Dibromoethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
1330-20-7	Xylene (Total)	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
98-82-8	Isopropylbenzene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
541-73-1	1,3-Dichlorobenzene	17	U
106-46-7	1,4-Dichlorobenzene	17	U
95-50-1	1,2-Dichlorobenzene	17	U
96-12-8	1,2-Dibromo-3-chloropropane	17	U
120-82-1	1,2,4-Trichlorobenzene	17	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0023RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083RE

Sample wt/vol: 3.3 (g/mL) G Lab File ID: H73FS594

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 9 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-18-3	DIMETHYL SULFIDE	2.31	21	NJ
2.		UNKNOWN	7.90	11	J
3.		UNKNOWN	8.88	8	J
4.		UNKNOWN	9.43	40	J
5.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	9.89	17	NJ
6.		UNKNOWN	10.36	9	J
7.		UNKNOWN	13.95	9	J
8.		UNKNOWN	14.05	11	J
9.					
10.					
11.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0024

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041084

Sample wt/vol: 5.6(g/mL) G Lab File ID: H73FS575

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	tert-Butyl Methyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0024

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041084

Sample wt/vol: 5.6(g/mL) G Lab File ID: H73FS575

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0024

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041084

Sample wt/vol: 5.6 (g/mL) G Lab File ID: H73FS575

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0025

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041085

Sample wt/vol: 5.5(g/mL) G Lab File ID: H73FS576

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 22 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12 ~~5~~	JB
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0025

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041085

Sample wt/vol: 5.5(g/mL) G Lab File ID: H73FS576

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 22 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0025

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041085

Sample wt/vol: 5.5 (g/mL) G Lab File ID: H73FS576

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 22 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0026

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041086

Sample wt/vol: 4.6(g/mL) G Lab File ID: H73FS577

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 30 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl Chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
67-64-1	Acetone	16 ~~3~~	JB U
75-15-0	Carbon Disulfide	16	U
79-20-9	Methyl Acetate	16	U
75-09-2	Methylene Chloride	5	J
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	tert-Butyl Methyl Ether	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
110-82-7	Cyclohexane	16	U
56-23-5	Carbon Tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0026

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041086

Sample wt/vol: 4.6(g/mL) G Lab File ID: H73FS577

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 30 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	16	U
108-87-2	Methylcyclohexane	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
1330-20-7	Xylene (Total)	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
96-12-8	1,2-Dibromo-3-chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0026

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041086

Sample wt/vol: 4.6 (g/mL) G Lab File ID: H73FS577

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 30 Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-18-3	DIMETHYL SULFIDE	2.31	27	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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11.					
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27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0027

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041087

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS604

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 34 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15	U
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0027

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041087

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS604

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 34 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0027

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041087

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS604

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 34 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0028

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041088

Sample wt/vol: 4.5(g/mL) G Lab File ID: H73FS595

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 23 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	tert-Butyl Methyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0028

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041088

Sample wt/vol: 4.5(g/mL) G Lab File ID: H73FS595

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 23 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0028

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041088

Sample wt/vol: 4.5 (g/mL) G Lab File ID: H73FS595

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 23 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-18-3	DIMETHYL SULFIDE	2.31	57	NJ
2.		UNKNOWN	3.74	10	J
3.		UNKNOWN	7.91	9	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0029

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089

Sample wt/vol: 3.9(g/mL) G Lab File ID: H73FS596

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 51 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	26	U
74-87-3	Chloromethane	26	U
75-01-4	Vinyl Chloride	26	U
74-83-9	Bromomethane	26	U
75-00-3	Chloroethane	26	U
75-69-4	Trichlorofluoromethane	26	U
75-35-4	1,1-Dichloroethene	26	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U
67-64-1	Acetone	3000	E
75-15-0	Carbon Disulfide	26	U
79-20-9	Methyl Acetate	26	U
75-09-2	Methylene Chloride	26	U
156-60-5	trans-1,2-Dichloroethene	26	U
1634-04-4	tert-Butyl Methyl Ether	26	U
75-34-3	1,1-Dichloroethane	26	U
156-59-2	cis-1,2-Dichloroethene	26	U
78-93-3	2-Butanone	30	
67-66-3	Chloroform	26	U
71-55-6	1,1,1-Trichloroethane	26	U
110-82-7	Cyclohexane	22	J
56-23-5	Carbon Tetrachloride	26	U
71-43-2	Benzene	41	
107-06-2	1,2-Dichloroethane	26	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0029

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089

Sample wt/vol: 3.9(g/mL) G Lab File ID: H73FS596

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 51 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	26	U
108-87-2	Methylcyclohexane	11	J
78-87-5	1,2-Dichloropropane	26	U
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
108-10-1	4-Methyl-2-Pentanone	26	U
108-88-3	Toluene	12	J
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	U
127-18-4	Tetrachloroethene	26	U
591-78-6	2-Hexanone	26	U
124-48-1	Dibromochloromethane	26	U
106-93-4	1,2-Dibromoethane	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
1330-20-7	Xylene (Total)	41	
100-42-5	Styrene	26	U
75-25-2	Bromoform	26	U
98-82-8	Isopropylbenzene	12	J
79-34-5	1,1,2,2-Tetrachloroethane	26	U
541-73-1	1,3-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
95-50-1	1,2-Dichlorobenzene	26	U
96-12-8	1,2-Dibromo-3-chloropropane	26	U
120-82-1	1,2,4-Trichlorobenzene	26	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0029

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089

Sample wt/vol: 3.9 (g/mL) G Lab File ID: H73FS596

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 51 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	1.85	85	J
2.		UNKNOWN	2.45	930	J
3.		UNKNOWN	4.26	20	J
4.		UNKNOWN	8.14	31	J
5.		UNKNOWN	9.16	39	J
6.		UNKNOWN	9.35	35	J
7.		UNKNOWN	9.42	88	J
8.		UNKNOWN	9.88	83	J
9.		UNKNOWN	10.19	71	J
10.		UNKNOWN	10.69	14	J
11.		UNKNOWN	10.93	29	J
12.		UNKNOWN	11.24	14	J
13.	25155-15-1	BENZENE, METHYL(1-METHYLETHY	11.62	14	NJ
14.		UNKNOWN	11.96	14	J
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
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25.					
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27.					
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30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0029DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089DL

Sample wt/vol: 1.0(g/mL) G Lab File ID: H73FS619

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 51 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U
75-01-4	Vinyl Chloride	100	U
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	100	U
79-20-9	Methyl Acetate	100	U
75-09-2	Methylene Chloride	100	U
156-60-5	trans-1,2-Dichloroethene	100	U
1634-04-4	tert-Butyl Methyl Ether	100	U
75-34-3	1,1-Dichloroethane	100	U
156-59-2	cis-1,2-Dichloroethene	100	U
78-93-3	2-Butanone	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
110-82-7	Cyclohexane	100	U
56-23-5	Carbon Tetrachloride	100	U
71-43-2	Benzene	100	U
107-06-2	1,2-Dichloroethane	100	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0029DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089DL

Sample wt/vol: 1.0(g/mL) G Lab File ID: H73FS619

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 51 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	100	U
108-87-2	Methylcyclohexane	100	U
78-87-5	1,2-Dichloropropane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
127-18-4	Tetrachloroethene	100	U
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0029DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: H73FS619

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 51 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0030

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090

Sample wt/vol: 4.2(g/mL) G Lab File ID: H73FS598

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15 ~~2~~	JB
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0030

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090

Sample wt/vol: 4.2(g/mL) G Lab File ID: H73FS598

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0030

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090

Sample wt/vol: 4.2 (g/mL) G Lab File ID: H73FS598

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-18-3	DIMETHYL SULFIDE	2.31	54	NJ
2.		UNKNOWN	3.40	31	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
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25.					
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30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0030RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090RE

Sample wt/vol: 4.5(g/mL) G Lab File ID: H73FS614

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	14 ~~4~~	JB
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14 ~~4~~	JB
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	tert-Butyl Methyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0030RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090RE

Sample wt/vol: 4.5(g/mL) G Lab File ID: H73FS614

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0030RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090RE

Sample wt/vol: 4.5 (g/mL) G Lab File ID: H73FS614

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 18 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	9.88	27	NJ
2.		UNKNOWN	10.52	8	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0031

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041091

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS605

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 41 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	17	U
74-87-3	Chloromethane	17	U
75-01-4	Vinyl Chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-69-4	Trichlorofluoromethane	17	U
75-35-4	1,1-Dichloroethene	17	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	U
67-64-1	Acetone	17	U
75-15-0	Carbon Disulfide	17	U
79-20-9	Methyl Acetate	17	U
75-09-2	Methylene Chloride	17	U
156-60-5	trans-1,2-Dichloroethene	17	U
1634-04-4	tert-Butyl Methyl Ether	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	17	U
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
110-82-7	Cyclohexane	17	U
56-23-5	Carbon Tetrachloride	17	U
71-43-2	Benzene	17	U
107-06-2	1,2-Dichloroethane	17	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0031

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041091

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS605

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 41 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	17	U
108-87-2	Methylcyclohexane	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-Pentanone	17	U
108-88-3	Toluene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	17	U
591-78-6	2-Hexanone	17	U
124-48-1	Dibromochloromethane	17	U
106-93-4	1,2-Dibromoethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
1330-20-7	Xylene (Total)	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
98-82-8	Isopropylbenzene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
541-73-1	1,3-Dichlorobenzene	17	U
106-46-7	1,4-Dichlorobenzene	17	U
95-50-1	1,2-Dichlorobenzene	17	U
96-12-8	1,2-Dibromo-3-chloropropane	17	U
120-82-1	1,2,4-Trichlorobenzene	17	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0031

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041091

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS605

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 41 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0032

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041092

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS606

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 14 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12 ~~4~~	JB U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0032

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041092

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS606

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 14 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0032

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041092

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS606

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 14 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	10.24	7	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093

Sample wt/vol: 5.3(g/mL) G Lab File ID: H73FS599

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 24 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093

Sample wt/vol: 5.3(g/mL) G Lab File ID: H73FS599

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 24 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0033

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093

Sample wt/vol: 5.3 (g/mL) G Lab File ID: H73FS599

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 24 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.47	12	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MS

Sample wt/vol: 5.6(g/mL) G Lab File ID: H73FS602

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 24 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	41	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12 ~~3~~	JB
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	48	
107-06-2	1,2-Dichloroethane	12	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MS

Sample wt/vol: 5.6(g/mL) G Lab File ID: H73FS602

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 24 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	43	
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	56	
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MSD

Sample wt/vol: 5.5(g/mL) G Lab File ID: H73FS603

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 24 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	43	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12 ~~3~~	JB
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	tert-Butyl Methyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	52	
107-06-2	1,2-Dichloroethane	12	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MSD

Sample wt/vol: 5.5(g/mL) G Lab File ID: H73FS603

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 24 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	46	
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	59	
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	54	
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0035

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS607

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 33 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15 ~~23~~	JB U
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0035

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS607

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 33 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0035

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS607

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 33 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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9.					
10.					
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28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0035RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094RE

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS615

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 33 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	22	B
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	4	J
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0035RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094RE

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS615

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 33 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0035RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS615

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 33 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0036

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041095

Sample wt/vol: 4.4(g/mL) G Lab File ID: H73FS600

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 27 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl Chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	16	U
79-20-9	Methyl Acetate	16	U
75-09-2	Methylene Chloride	16	U
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	tert-Butyl Methyl Ether	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
110-82-7	Cyclohexane	16	U
56-23-5	Carbon Tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0036

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041095

Sample wt/vol: 4.4(g/mL) G Lab File ID: H73FS600

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 27 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	16	U
108-87-2	Methylcyclohexane	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
1330-20-7	Xylene (Total)	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
96-12-8	1,2-Dibromo-3-chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0036

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041095

Sample wt/vol: 4.4 (g/mL) G Lab File ID: H73FS600

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 27 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-18-3	DIMETHYL SULFIDE	2.31	110	NJ
2.		UNKNOWN	9.89	8	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0037

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041096

Sample wt/vol: 4.6(g/mL) G Lab File ID: H73FS601

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 26 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	15 ~~3~~	JB U
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	tert-Butyl Methyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0037

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041096

Sample wt/vol: 4.6(g/mL) G Lab File ID: H73FS601

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 26 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0037

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041096

Sample wt/vol: 4.6 (g/mL) G Lab File ID: H73FS601

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 26 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-18-3	DIMETHYL SULFIDE	2.31	130	NJ
2.					
3.					
4.					
5.					
6.					
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27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0038

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS608

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 60 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl Chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	25	U
79-20-9	Methyl Acetate	25	U
75-09-2	Methylene Chloride	25 ~~6~~	JB U
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	tert-Butyl Methyl Ether	25	U
75-34-3	1,1-Dichloroethane	25	U
156-59-2	cis-1,2-Dichloroethene	25	U
78-93-3	2-Butanone	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
110-82-7	Cyclohexane	25	U
56-23-5	Carbon Tetrachloride	25	U
71-43-2	Benzene	25	U
107-06-2	1,2-Dichloroethane	25	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0038

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS608

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 60 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	25	U
108-87-2	Methylcyclohexane	25	U
78-87-5	1,2-Dichloropropane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	25	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0038

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS608

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 60 Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0038RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097RE

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS617

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 60 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl Chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	25	U
79-20-9	Methyl Acetate	25	U
75-09-2	Methylene Chloride	25 ~~9~~	JB u
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	tert-Butyl Methyl Ether	25	U
75-34-3	1,1-Dichloroethane	25	U
156-59-2	cis-1,2-Dichloroethene	25	U
78-93-3	2-Butanone	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
110-82-7	Cyclohexane	25	U
56-23-5	Carbon Tetrachloride	25	U
71-43-2	Benzene	25	U
107-06-2	1,2-Dichloroethane	25	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0038RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097RE

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS617

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 60 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	25	U
108-87-2	Methylcyclohexane	25	U
78-87-5	1,2-Dichloropropane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	25	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0038RE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS617

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 60 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0039

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041098

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS618

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 63 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	27	U
74-87-3	Chloromethane	27	U
75-01-4	Vinyl Chloride	27	U
74-83-9	Bromomethane	27	U
75-00-3	Chloroethane	27	U
75-69-4	Trichlorofluoromethane	27	U
75-35-4	1,1-Dichloroethene	27	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27	U
67-64-1	Acetone	27	U
75-15-0	Carbon Disulfide	27	U
79-20-9	Methyl Acetate	27	U
75-09-2	Methylene Chloride	27 ~~9~~	JB M
156-60-5	trans-1,2-Dichloroethene	27	U
1634-04-4	tert-Butyl Methyl Ether	27	U
75-34-3	1,1-Dichloroethane	27	U
156-59-2	cis-1,2-Dichloroethene	27	U
78-93-3	2-Butanone	27	U
67-66-3	Chloroform	27	U
71-55-6	1,1,1-Trichloroethane	27	U
110-82-7	Cyclohexane	27	U
56-23-5	Carbon Tetrachloride	27	U
71-43-2	Benzene	27	U
107-06-2	1,2-Dichloroethane	27	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0039

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041098

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS618

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 63 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	27	U
108-87-2	Methylcyclohexane	27	U
78-87-5	1,2-Dichloropropane	27	U
75-27-4	Bromodichloromethane	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
108-10-1	4-Methyl-2-Pentanone	27	U
108-88-3	Toluene	27	U
10061-02-6	trans-1,3-Dichloropropene	27	U
79-00-5	1,1,2-Trichloroethane	27	U
127-18-4	Tetrachloroethene	27	U
591-78-6	2-Hexanone	27	U
124-48-1	Dibromochloromethane	27	U
106-93-4	1,2-Dibromoethane	27	U
108-90-7	Chlorobenzene	27	U
100-41-4	Ethylbenzene	27	U
1330-20-7	Xylene (Total)	27	U
100-42-5	Styrene	27	U
75-25-2	Bromoform	27	U
98-82-8	Isopropylbenzene	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
541-73-1	1,3-Dichlorobenzene	27	U
106-46-7	1,4-Dichlorobenzene	27	U
95-50-1	1,2-Dichlorobenzene	27	U
96-12-8	1,2-Dibromo-3-chloropropane	27	U
120-82-1	1,2,4-Trichlorobenzene	27	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0039

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041098

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS618

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. 63 Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.00	36	J
2.		UNKNOWN	3.20	32	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFZ

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0407

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS542

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	4	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFZ

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0407

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS542

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKFZ

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0407

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS542

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKF7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0407

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS572

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKF7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0407

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS572

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKF7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0407

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS572

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/07/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0408

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS593

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0408

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS593

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKFA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0408

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS593

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/08/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0409

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS613

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0409

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS613

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. _____ Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0409

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS613

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK0401

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS620

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. _____ Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10 ~~3~~	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	tert-Butyl Methyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK0401

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FS620

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. _____ Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK0401

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FS620

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: not dec. _____ Date Analyzed: 04/09/04

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.70	8	J
2.				
3.				
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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK39	76	82	100	76	72	104	76	71	0
02	E0036	70	74	87	71	68	94	71	61	0
03	E0037	57	61	91	62	56	94	59	52	0
04	E0030	80	85	105	87	80	100	83	70	0
05	E0033	68	73	95	70	64	94	70	59	0
06	E0026	75	79	100	78	75	92	78	63	0
07	E0028	64	68	86	75	69	88	72	59	0
08	E0031	64	71	89	69	64	93	69	57	0
09	E0024	70	75	95	70	67	93	70	60	0
10	E0035	85	80	100	90	75	95	85	70	0
11	E0029	65	75	85	70	70	85	70	60	0
12	E0033MS	68	73	95	73	70	94	73	55	0
13	E0033MSD	82	91	114	88	79	112	85	68	0
14	E0025	85	85	100	85	85	100	85	70	0
15	E0039	80	75	100	80	70	95	80	70	0
16	E0038	75	75	100	85	70	85	75	65	0
17	E0020	55	60	85	65	55	85	60	50	0
18	E0027	70	75	90	75	70	85	75	65	0
19	E0032	75	85	105	75	75	85	80	70	0
20	E0022	75	90	100	80	75	90	80	70	0
21	E0021	65	70	80	75	70	75	70	60	0
22	E0022DL	* 0D	* 0D	* 0D	* 0D	* 0D	* 0D	* 0D	* 0D	8
23	E0023	75	80	91	66	58	91	66	52	0
24										
25										
26										
27										
28										
29										
30										

aCH 5.17.04

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix Spike - EPA Sample No.: E0033 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3300	0.0	2300	70	26- 90
2-Chlorophenol	3300	0.0	2200	67	25-102
N-Nitroso-di-n-prop.(1)	2200	0.0	1400	64	41-126
4-Chloro-3-methylphenol	3300	0.0	2600	79	26-103
Acenaphthene	2200	0.0	1600	73	31-137
4-Nitrophenol	3300	0.0	3200	97	11-114
2,4-Dinitrotoluene	2200	0.0	1700	77	28- 89
Pentachlorophenol	3300	0.0	2700	82	17-109
Pyrene	2200	290	1600	60	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3300	2300	70	0	35	26- 90
2-Chlorophenol	3300	2100	64	5	50	25-102
N-Nitroso-di-n-prop.(1)	2200	1400	64	0	38	41-126
4-Chloro-3-methylphenol	3300	2800	85	7	33	26-103
Acenaphthene	2200	1700	77	5	19	31-137
4-Nitrophenol	3300	3900	118*	20	50	11-114
2,4-Dinitrotoluene	2200	1900	86	11	47	28- 89
Pentachlorophenol	3300	2800	85	4	47	17-109
Pyrene	2200	1900	73	20	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 1 out of 18 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK39

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Lab File ID: H73GQ382 Lab Sample ID: 0408SSB1

Instrument ID: HP73G Date Extracted: 04/08/04

Matrix: (soil/water) SOIL Date Analyzed: 04/14/04

Level:(low/med) LOW Time Analyzed: 1041

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0036	04041095	H73GQ385	04/14/04
02	E0037	04041096	H73GQ386	04/14/04
03	E0030	04041090	H73GQ387	04/14/04
04	E0033	04041093	H73GQ388	04/14/04
05	E0026	04041086	H73GQ389	04/14/04
06	E0028	04041088	H73GQ390	04/14/04
07	E0031	04041091	H73GQ391	04/14/04
08	E0024	04041084	H73GQ392	04/14/04
09	E0035	04041094	H73GQ393	04/14/04
10	E0029	04041089	H73GQ394	04/14/04
11	E0033MS	04041093MS	H73GQ395	04/14/04
12	E0033MSD	04041093MSD	H73GQ396	04/14/04
13	E0025	04041085	H73GQ402	04/15/04
14	E0039	04041098	H73GQ403	04/15/04
15	E0038	04041097	H73GQ404	04/15/04
16	E0020	04041080	H73GQ405	04/15/04
17	E0027	04041087	H73GQ406	04/15/04
18	E0032	04041092	H73GQ407	04/15/04
19	E0022	04041082	H73GQ408	04/15/04
20	E0021	04041081	H73GQ409	04/15/04
21	E0022DL	04041082DL	H73GQ411	04/15/04
22	E0023	04041083	H73GQ412	04/15/04
23				
24				
25				
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30				

COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0020

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041080

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ405

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2500	U
108-95-2	Phenol	2500	U
111-44-4	bis(2-Chloroethyl)Ether	2500	U
95-57-8	2-Chlorophenol	2500	U
95-48-7	2-Methylphenol	2500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2500	U
98-86-2	Acetophenone	2500	U
106-44-5	4-Methylphenol	2500	U
621-64-7	N-Nitroso-di-n-propylamine	2500	U
67-72-1	Hexachloroethane	2500	U
98-95-3	Nitrobenzene	2500	U
78-59-1	Isophorone	2500	U
88-75-5	2-Nitrophenol	2500	U
105-67-9	2,4-Dimethylphenol	2500	U
111-91-1	bis(2-Chloroethoxy)methane	2500	U
120-83-2	2,4-Dichlorophenol	2500	U
91-20-3	Naphthalene	2500	U
106-47-8	4-Chloroaniline	2500	U
87-68-3	Hexachlorobutadiene	2500	U
105-60-2	Caprolactam	2500	U
59-50-7	4-Chloro-3-methylphenol	2500	U
91-57-6	2-Methylnaphthalene	2500	U
77-47-4	Hexachlorocyclopentadiene	2500	U
88-06-2	2,4,6-Trichlorophenol	2500	U
95-95-4	2,4,5-Trichlorophenol	6400	U
92-52-4	1,1'-Biphenyl	2500	U
91-58-7	2-Chloronaphthalene	2500	U
88-74-4	2-Nitroaniline	6400	U
131-11-3	Dimethylphthalate	2500	U
606-20-2	2,6-Dinitrotoluene	2500	U
208-96-8	Acenaphthylene	2500	U
99-09-2	3-Nitroaniline	6400	U
83-32-9	Acenaphthene	2500	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0020

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041080

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ405

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6400	U
100-02-7	4-Nitrophenol	6400	U
132-64-9	Dibenzofuran	2500	U
121-14-2	2,4-Dinitrotoluene	2500	U
84-66-2	Diethylphthalate	2500	U
86-73-7	Fluorene	2500	U
7005-72-3	4-Chlorophenyl-phenylether	2500	U
100-01-6	4-Nitroaniline	6400	U
534-52-1	4,6-Dinitro-2-methylphenol	6400	U
86-30-6	N-Nitrosodiphenylamine (1)	2500	U
101-55-3	4-Bromophenyl-phenylether	2500	U
118-74-1	Hexachlorobenzene	2500	U
1912-24-9	Atrazine	2500	U
87-86-5	Pentachlorophenol	6400	U
85-01-8	Phenanthrene	1500	J
120-12-7	Anthracene	530	J
86-74-8	Carbazole	2500	U
84-74-2	Di-n-butylphthalate	2500	U
206-44-0	Fluoranthene	4000	
129-00-0	Pyrene	4000	
85-68-7	Butylbenzylphthalate	2500	U
91-94-1	3,3'-Dichlorobenzidine	2500	U
56-55-3	Benzo(a)anthracene	2000	J
218-01-9	Chrysene	2800	
117-81-7	bis(2-Ethylhexyl)phthalate	560	J
117-84-0	Di-n-octylphthalate	2500	U
205-99-2	Benzo(b)fluoranthene	2000	J
207-08-9	Benzo(k)fluoranthene	1700	J
50-32-8	Benzo(a)pyrene	1900	J
193-39-5	Indeno(1,2,3-cd)pyrene	1300	J
53-70-3	Dibenzo(a,h)anthracene	530	J
191-24-2	Benzo(g,h,i)perylene	370	J

(1) - Cannot be separated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0020

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041080

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ405

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 35 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.60	800	JB
2.		UNKNOWN	8.35	630	JB
3.		UNKNOWN	19.96	570	J
4.		UNKNOWN	20.66	1000	J
5.		UNKNOWN	21.11	710	J
6.		UNKNOWN	21.20	1100	J
7.		UNKNOWN	21.53	550	J
8.		UNKNOWN	21.75	560	J
9.		UNKNOWN	23.39	640	J
10.	33543-31-6	FLUORANTHENE, 2-METHYL-	23.43	940	NJ
11.		UNKNOWN	24.90	680	J
12.		UNKNOWN	25.01	550	J
13.		UNKNOWN	25.34	670	J
14.		UNKNOWN	26.84	710	J
15.		UNKNOWN	27.84	820	J
16.		UNKNOWN	28.14	740	J
17.	192-97-2	BENZO[E]PYRENE	28.48	1500	NJ
18.		UNKNOWN	30.23	700	J
19.		UNKNOWN	30.75	730	J
20.		UNKNOWN	31.46	710	J
21.		UNKNOWN	31.48	880	J
22.					
23.					
24.					
25.					
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27.					
28.					
29.					
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0021

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041081

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ409

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2500	U
108-95-2	Phenol	2500	U
111-44-4	bis(2-Chloroethyl)Ether	2500	U
95-57-8	2-Chlorophenol	2500	U
95-48-7	2-Methylphenol	2500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2500	U
98-86-2	Acetophenone	2500	U
106-44-5	4-Methylphenol	2500	U
621-64-7	N-Nitroso-di-n-propylamine	2500	U
67-72-1	Hexachloroethane	2500	U
98-95-3	Nitrobenzene	2500	U
78-59-1	Isophorone	2500	U
88-75-5	2-Nitrophenol	2500	U
105-67-9	2,4-Dimethylphenol	2500	U
111-91-1	bis(2-Chloroethoxy)methane	2500	U
120-83-2	2,4-Dichlorophenol	2500	U
91-20-3	Naphthalene	2500	U
106-47-8	4-Chloroaniline	2500	U
87-68-3	Hexachlorobutadiene	2500	U
105-60-2	Caprolactam	2500	U
59-50-7	4-Chloro-3-methylphenol	2500	U
91-57-6	2-Methylnaphthalene	2500	U
77-47-4	Hexachlorocyclopentadiene	2500	U
88-06-2	2,4,6-Trichlorophenol	2500	U
95-95-4	2,4,5-Trichlorophenol	6400	U
92-52-4	1,1'-Biphenyl	2500	U
91-58-7	2-Chloronaphthalene	2500	U
88-74-4	2-Nitroaniline	6400	U
131-11-3	Dimethylphthalate	2500	U
606-20-2	2,6-Dinitrotoluene	2500	U
208-96-8	Acenaphthylene	380	J
99-09-2	3-Nitroaniline	6400	U
83-32-9	Acenaphthene	380	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0021

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041081

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ409

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6400	U
100-02-7	4-Nitrophenol	6400	U
132-64-9	Dibenzofuran	2500	U
121-14-2	2,4-Dinitrotoluene	2500	U
84-66-2	Diethylphthalate	2500	U
86-73-7	Fluorene	480	J
7005-72-3	4-Chlorophenyl-phenylether	2500	U
100-01-6	4-Nitroaniline	6400	U
534-52-1	4,6-Dinitro-2-methylphenol	6400	U
86-30-6	N-Nitrosodiphenylamine (1)	2500	U
101-55-3	4-Bromophenyl-phenylether	2500	U
118-74-1	Hexachlorobenzene	2500	U
1912-24-9	Atrazine	2500	U
87-86-5	Pentachlorophenol	6400	U
85-01-8	Phenanthrene	2600	
120-12-7	Anthracene	1100	J
86-74-8	Carbazole	2500	U
84-74-2	Di-n-butylphthalate	2500	U
206-44-0	Fluoranthene	5300	
129-00-0	Pyrene	6100	
85-68-7	Butylbenzylphthalate	2500	U
91-94-1	3,3'-Dichlorobenzidine	2500	U
56-55-3	Benzo(a)anthracene	3000	
218-01-9	Chrysene	3400	
117-81-7	bis(2-Ethylhexyl)phthalate	420	J
117-84-0	Di-n-octylphthalate	2500	U
205-99-2	Benzo(b)fluoranthene	2300	J
207-08-9	Benzo(k)fluoranthene	2000	J
50-32-8	Benzo(a)pyrene	2300	J
193-39-5	Indeno(1,2,3-cd)pyrene	1400	J
53-70-3	Dibenzo(a,h)anthracene	580	J
191-24-2	Benzo(g,h,i)perylene	520	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E0021

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041081

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ409

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 35 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 28

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.59	920	JB
2.		UNKNOWN	15.12	880	J
3.		UNKNOWN	17.36	800	J
4.		UNKNOWN	17.99	1300	J
5.		UNKNOWN	19.96	1100	J
6.	613-12-7	ANTHRACENE, 2-METHYL-	20.38	770	NJ
7.	949-41-7	1H-CYCLOPROPA[L]PHENANTHRENE	20.45	870	NJ
8.		UNKNOWN	20.65	1800	J
9.		UNKNOWN	20.71	880	J
10.		UNKNOWN	21.08	840	J
11.		UNKNOWN	21.11	1000	J
12.		UNKNOWN	21.20	2600	J
13.	1000197-14-1	4B,8-DIMETHYL-2-ISOPROPYLPHE	21.53	3000	NJ
14.	781-43-1	9,10-DIMETHYLANTHRACENE	21.75	1000	NJ
15.		UNKNOWN	22.01	770	J
16.	69009-90-1	1,1'-BIPHENYL, BIS(1-METHYLE	22.29	11000	NJ
17.		UNKNOWN	23.41	3000	J
18.		UNKNOWN	24.03	790	J
19.		UNKNOWN	24.82	800	J
20.		UNKNOWN	25.01	780	J
21.		UNKNOWN	25.78	850	J
22.		UNKNOWN	26.48	910	J
23.		UNKNOWN	26.83	850	J
24.		UNKNOWN	27.47	1000	J
25.		UNKNOWN	27.85	1100	J
26.	205-99-2	BENZ[E]ACEPHENANTHRYLENE	28.49	1700	NJ
27.		UNKNOWN	31.14	1200	J
28.		UNKNOWN	31.49	1300	J
29.					
30.					

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0022

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ408

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 37 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2600	U
108-95-2	Phenol	2600	U
111-44-4	bis(2-Chloroethyl)Ether	2600	U
95-57-8	2-Chlorophenol	2600	U
95-48-7	2-Methylphenol	2600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2600	U
98-86-2	Acetophenone	2600	U
106-44-5	4-Methylphenol	2600	U
621-64-7	N-Nitroso-di-n-propylamine	2600	U
67-72-1	Hexachloroethane	2600	U
98-95-3	Nitrobenzene	2600	U
78-59-1	Isophorone	2600	U
88-75-5	2-Nitrophenol	2600	U
105-67-9	2,4-Dimethylphenol	2600	U
111-91-1	bis(2-Chloroethoxy)methane	2600	U
120-83-2	2,4-Dichlorophenol	2600	U
91-20-3	Naphthalene	650	J
106-47-8	4-Chloroaniline	2600	U
87-68-3	Hexachlorobutadiene	2600	U
105-60-2	Caprolactam	2600	U
59-50-7	4-Chloro-3-methylphenol	2600	U
91-57-6	2-Methylnaphthalene	710	J
77-47-4	Hexachlorocyclopentadiene	2600	U
88-06-2	2,4,6-Trichlorophenol	2600	U
95-95-4	2,4,5-Trichlorophenol	6600	U
92-52-4	1,1'-Biphenyl	2600	U
91-58-7	2-Chloronaphthalene	2600	U
88-74-4	2-Nitroaniline	6600	U
131-11-3	Dimethylphthalate	2600	U
606-20-2	2,6-Dinitrotoluene	2600	U
208-96-8	Acenaphthylene	4000	
99-09-2	3-Nitroaniline	6600	U
83-32-9	Acenaphthene	2500	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0022

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ408

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 37 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6600	U
100-02-7	4-Nitrophenol	6600	U
132-64-9	Dibenzofuran	750	J
121-14-2	2,4-Dinitrotoluene	2600	U
84-66-2	Diethylphthalate	2600	U
86-73-7	Fluorene	3100	
7005-72-3	4-Chlorophenyl-phenylether	2600	U
100-01-6	4-Nitroaniline	6600	U
534-52-1	4,6-Dinitro-2-methylphenol	6600	U
86-30-6	N-Nitrosodiphenylamine (1)	2600	U
101-55-3	4-Bromophenyl-phenylether	2600	U
118-74-1	Hexachlorobenzene	2600	U
1912-24-9	Atrazine	2600	U
87-86-5	Pentachlorophenol	6600	U
85-01-8	Phenanthrene	8400	
120-12-7	Anthracene	9200	
86-74-8	Carbazole	2600	U
84-74-2	Di-n-butylphthalate	2600	U
206-44-0	Fluoranthene	30000	E
129-00-0	Pyrene	40000	E
85-68-7	Butylbenzylphthalate	2600	U
91-94-1	3,3'-Dichlorobenzidine	2600	U
56-55-3	Benzo(a)anthracene	26000	E
218-01-9	Chrysene	29000	E
117-81-7	bis(2-Ethylhexyl)phthalate	2600	U
117-84-0	Di-n-octylphthalate	2600	U
205-99-2	Benzo(b)fluoranthene	17000	
207-08-9	Benzo(k)fluoranthene	16000	
50-32-8	Benzo(a)pyrene	22000	E
193-39-5	Indeno(1,2,3-cd)pyrene	12000	
53-70-3	Dibenzo(a,h)anthracene	4900	
191-24-2	Benzo(g,h,i)perylene	4400	

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0022

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ408

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 37 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.36	3000	J
2. 7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.97	5700	NJ
3. 949-41-7	1H-CYCLOPROPA[L]PHENANTHRENE	20.38	4400	NJ
4. 832-69-9	PHENANTHRENE, 1-METHYL-	20.45	5000	NJ
5. 949-41-7	1H-CYCLOPROPA[L]PHENANTHRENE	20.54	5200	NJ
6.	UNKNOWN	20.66	11000	J
7. 1000210-87-8	1A,9B-DIHYDRO-1H-CYCLOPROPA[	20.70	5700	NJ
8.	UNKNOWN	21.12	8600	J
9.	UNKNOWN	21.21	14000	J
10.	UNKNOWN	21.54	21000	J
11. 781-92-0	ANTHRACENE, 1,4-DIMETHYL-	21.76	6400	NJ
12.	UNKNOWN	21.82	5200	J
13.	UNKNOWN	22.30	11000	J
14. 2381-21-7	PYRENE, 1-METHYL-	23.18	4900	NJ
15. 33543-31-6	FLUORANTHENE, 2-METHYL-	23.44	12000	NJ
16. 243-17-4	11H-BENZO[B]FLUORENE	23.59	5600	NJ
17. 2381-21-7	PYRENE, 1-METHYL-	23.68	5600	NJ
18. 3353-12-6	PYRENE, 4-METHYL-	23.90	5600	NJ
19. 2381-21-7	PYRENE, 1-METHYL-	23.96	4400	NJ
20. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	24.92	5500	NJ
21. 195-19-7	BENZO[C]PHENANTHRENE	25.01	5200	NJ
22. 25732-74-5	3,4-DIHYDROCYCLOPENTA(CD)PYR	25.78	6000	NJ
23. 1705-84-6	TRIPHENYLENE, 2-METHYL-	26.48	8500	NJ
24. 3351-28-8	CHRYSENE, 1-METHYL-	26.57	4500	NJ
25.	UNKNOWN	26.71	5200	J
26. 198-55-0	PERYLENE	28.16	5900	NJ
27. 192-97-2	BENZO[E]PYRENE	28.50	13000	NJ
28. 192-97-2	BENZO[E]PYRENE	28.77	4200	NJ
29.	UNKNOWN	31.50	9000	J
30.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0022DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ411

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 37 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10000	U
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)Ether	10000	U
95-57-8	2-Chlorophenol	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
98-86-2	Acetophenone	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
105-60-2	Caprolactam	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	26000	U
92-52-4	1,1'-Biphenyl	10000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	26000	U
131-11-3	Dimethylphthalate	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
208-96-8	Acenaphthylene	4200	DJ
99-09-2	3-Nitroaniline	26000	U
83-32-9	Acenaphthene	2400	DJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0022DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ411

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 37 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	26000	U
100-02-7	4-Nitrophenol	26000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
86-73-7	Fluorene	3300	DJ
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	26000	U
534-52-1	4,6-Dinitro-2-methylphenol	26000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
1912-24-9	Atrazine	10000	U
87-86-5	Pentachlorophenol	26000	U
85-01-8	Phenanthrene	8000	DJ
120-12-7	Anthracene	8900	DJ
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	28000	D
129-00-0	Pyrene	40000	D
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	25000	D
218-01-9	Chrysene	29000	D
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	16000	D
207-08-9	Benzo(k)fluoranthene	16000	D
50-32-8	Benzo(a)pyrene	21000	D
193-39-5	Indeno(1,2,3-cd)pyrene	12000	D
53-70-3	Dibenzo(a,h)anthracene	4100	DJ
191-24-2	Benzo(g,h,i)perylene	4500	DJ

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0022DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ411

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 37 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	19.97	5800	JD
2.	832-69-9	PHENANTHRENE, 1-METHYL-	20.38	4700	NJD
3.	2531-84-2	PHENANTHRENE, 2-METHYL-	20.45	5200	NJD
4.	2531-84-2	PHENANTHRENE, 2-METHYL-	20.54	5000	NJD
5.		UNKNOWN	20.66	11000	JD
6.	1000210-52-3	NAPHTHO[2,3-B]NORBORNADIENE	20.71	5900	NJD
7.		UNKNOWN	21.12	9000	JD
8.		UNKNOWN	21.21	14000	JD
9.	1000197-14-1	4B,8-DIMETHYL-2-ISOPROPYLPHE	21.54	22000	NJD
10.	3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	21.75	6300	NJD
11.		UNKNOWN	21.82	5500	JD
12.		UNKNOWN	22.30	11000	JD
13.	2381-21-7	PYRENE, 1-METHYL-	23.18	5500	NJD
14.	33543-31-6	FLUORANTHENE, 2-METHYL-	23.44	13000	NJD
15.		UNKNOWN	23.59	6800	JD
16.	2381-21-7	PYRENE, 1-METHYL-	23.67	6000	NJD
17.		UNKNOWN	23.84	4700	JD
18.	3353-12-6	PYRENE, 4-METHYL-	23.90	6300	NJD
19.	2381-21-7	PYRENE, 1-METHYL-	23.96	4700	NJD
20.	239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	24.91	6300	NJD
21.		UNKNOWN	25.00	5100	JD
22.		UNKNOWN	25.77	5800	JD
23.		UNKNOWN	26.48	8100	JD
24.	3351-31-3	CHRYSENE, 3-METHYL-	26.57	4600	NJD
25.		UNKNOWN	26.70	5500	JD
26.		UNKNOWN	26.80	4400	JD
27.		UNKNOWN	28.15	7200	JD
28.	198-55-0	PERYLENE	28.50	14000	NJD
29.		UNKNOWN	31.49	11000	JD
30.					

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0023

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ412

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 9 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	3600	U
108-95-2	Phenol	3600	U
111-44-4	bis(2-Chloroethyl)Ether	3600	U
95-57-8	2-Chlorophenol	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3600	U
98-86-2	Acetophenone	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
105-67-9	2,4-Dimethylphenol	3600	U
111-91-1	bis(2-Chloroethoxy)methane	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
91-20-3	Naphthalene	3600	U
106-47-8	4-Chloroaniline	3600	U
87-68-3	Hexachlorobutadiene	3600	U
105-60-2	Caprolactam	3600	U
59-50-7	4-Chloro-3-methylphenol	3600	U
91-57-6	2-Methylnaphthalene	3600	U
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	9100	U
92-52-4	1,1'-Biphenyl	3600	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	9100	U
131-11-3	Dimethylphthalate	3600	U
606-20-2	2,6-Dinitrotoluene	3600	U
208-96-8	Acenaphthylene	3600	U
99-09-2	3-Nitroaniline	9100	U
83-32-9	Acenaphthene	3600	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0023

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ412

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 9 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9100	U
100-02-7	4-Nitrophenol	9100	U
132-64-9	Dibenzofuran	3600	U
121-14-2	2,4-Dinitrotoluene	3600	U
84-66-2	Diethylphthalate	3600	U
86-73-7	Fluorene	3600	U
7005-72-3	4-Chlorophenyl-phenylether	3600	U
100-01-6	4-Nitroaniline	9100	U
534-52-1	4,6-Dinitro-2-methylphenol	9100	U
86-30-6	N-Nitrosodiphenylamine (1)	3600	U
101-55-3	4-Bromophenyl-phenylether	3600	U
118-74-1	Hexachlorobenzene	3600	U
1912-24-9	Atrazine	3600	U
87-86-5	Pentachlorophenol	9100	U
85-01-8	Phenanthrene	3600	U
120-12-7	Anthracene	3600	U
86-74-8	Carbazole	3600	U
84-74-2	Di-n-butylphthalate	3600	U
206-44-0	Fluoranthene	460	J
129-00-0	Pyrene	690	J
85-68-7	Butylbenzylphthalate	3600	U
91-94-1	3,3'-Dichlorobenzidine	3600	U
56-55-3	Benzo(a)anthracene	3600	U
218-01-9	Chrysene	750	J
117-81-7	bis(2-Ethylhexyl)phthalate	1200	J
117-84-0	Di-n-octylphthalate	3600	U
205-99-2	Benzo(b)fluoranthene	380	J
207-08-9	Benzo(k)fluoranthene	3600	U
50-32-8	Benzo(a)pyrene	710	J
193-39-5	Indeno(1,2,3-cd)pyrene	480	J
53-70-3	Dibenzo(a,h)anthracene	3600	U
191-24-2	Benzo(g,h,i)perylene	490	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0023

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ412

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 9 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.60	1300	JB
2.		UNKNOWN	12.60	2200	J
3.		UNKNOWN	14.02	1200	J
4.		UNKNOWN	21.74	1200	J
5.	69009-90-1	1,1'-BIPHENYL, BIS(1-METHYLE	22.29	3400	NJ
6.		UNKNOWN	25.34	1300	J
7.		UNKNOWN	26.79	1500	J
8.		UNKNOWN	27.86	1400	J
9.		UNKNOWN	28.01	1500	J
10.		UNKNOWN	28.25	1200	J
11.		UNKNOWN	28.29	1800	J
12.		UNKNOWN	28.37	1100	J
13.		UNKNOWN	28.50	1100	J
14.		UNKNOWN	28.57	1100	J
15.		UNKNOWN	28.63	1700	J
16.		UNKNOWN	28.91	1700	J
17.		UNKNOWN	29.22	1900	J
18.		UNKNOWN	29.33	1200	J
19.		UNKNOWN	29.66	1400	J
20.		UNKNOWN	29.67	1400	J
21.		UNKNOWN	29.83	3200	J
22.		UNKNOWN	29.89	1400	J
23.		UNKNOWN	30.23	1700	J
24.		UNKNOWN	30.51	3800	J
25.		UNKNOWN	31.15	3200	J
26.		UNKNOWN	31.39	1700	J
27.		UNKNOWN	31.51	1400	J
28.		UNKNOWN	32.05	1400	J
29.		UNKNOWN	34.39	1300	J
30.					

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0024

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041084

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ392

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0024

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041084

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ392

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	86	J
120-12-7	Anthracene	42	J
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	230	J
129-00-0	Pyrene	230	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	170	J
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	210	J
207-08-9	Benzo(k)fluoranthene	160	J
50-32-8	Benzo(a)pyrene	180	J
193-39-5	Indeno(1,2,3-cd)pyrene	210	J
53-70-3	Dibenzo(a,h)anthracene	67	J
191-24-2	Benzo(g,h,i)perylene	65	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E0024

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041084

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ392

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 18 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

Number TICs found: 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.60	560	JB
2.	UNKNOWN	8.34	1800	JB
3.	UNKNOWN	8.73	230	JB
4.	UNKNOWN	9.33	870	JB
5. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	10.79	110	NJ
6.	UNKNOWN	20.68	96	J
7.	UNKNOWN	26.85	140	J
8.	UNKNOWN	27.86	160	J
9.	UNKNOWN	27.87	150	J
10.	UNKNOWN	28.33	120	J
11.	UNKNOWN	28.50	110	J
12.	UNKNOWN	28.91	99	J
13.	UNKNOWN	29.87	96	J
14.	UNKNOWN	30.77	100	J
15.	UNKNOWN	31.00	170	J
16.	UNKNOWN	31.17	150	J
17.	UNKNOWN	31.49	97	J
18.	UNKNOWN	32.04	150	J
19.	UNKNOWN	33.61	180	J
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5-17-04

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0025

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041085

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ402

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 22 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	bis(2-Chloroethyl)Ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	bis(2-Chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	5300	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	5300	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	5300	U
83-32-9	Acenaphthene	2100	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0025

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041085

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ402

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 22 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5300	U
100-02-7	4-Nitrophenol	5300	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	5300	U
534-52-1	4,6-Dinitro-2-methylphenol	5300	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	5300	U
85-01-8	Phenanthrene	2100	U
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	2100	U
218-01-9	Chrysene	2100	U
117-81-7	bis(2-Ethylhexyl)phthalate	2100	U
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	2100	U
207-08-9	Benzo(k)fluoranthene	2100	U
50-32-8	Benzo(a)pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)pyrene	2100	U
53-70-3	Dibenzo(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	2100	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0025

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041085

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ402

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 22 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.59	1200	JB
2.	UNKNOWN	8.33	1600	JB
3.	UNKNOWN	9.14	890	J
4.	UNKNOWN	9.31	1100	JB
5.	UNKNOWN	27.83	850	J
6.	UNKNOWN	29.19	450	J
7.	UNKNOWN	29.21	510	J
8.	UNKNOWN	29.22	600	J
9.	UNKNOWN	30.74	510	J
10.	UNKNOWN	33.53	450	J
11.	UNKNOWN	33.56	680	J
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0026

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041086

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ389

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 30 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	470	U
108-95-2	Phenol	470	U
111-44-4	bis(2-Chloroethyl)Ether	470	U
95-57-8	2-Chlorophenol	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
98-86-2	Acetophenone	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	bis(2-Chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
105-60-2	Caprolactam	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	470	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	470	U
606-20-2	2,6-Dinitrotoluene	470	U
208-96-8	Acenaphthylene	470	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	470	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0026

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041086

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ389

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 30 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	470	U
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
86-73-7	Fluorene	470	U
7005-72-3	4-Chlorophenyl-phenylether	470	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
1912-24-9	Atrazine	470	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	140	J
120-12-7	Anthracene	470	U
86-74-8	Carbazole	470	U
84-74-2	Di-n-butylphthalate	470 ~~53~~	JB
206-44-0	Fluoranthene	310	J
129-00-0	Pyrene	250	J
85-68-7	Butylbenzylphthalate	470	U
91-94-1	3,3'-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	190	J
218-01-9	Chrysene	230	J
117-81-7	bis(2-Ethylhexyl)phthalate	470	U
117-84-0	Di-n-octylphthalate	470	U
205-99-2	Benzo(b)fluoranthene	190	J
207-08-9	Benzo(k)fluoranthene	180	J
50-32-8	Benzo(a)pyrene	110	J
193-39-5	Indeno(1,2,3-cd)pyrene	99	J
53-70-3	Dibenzo(a,h)anthracene	48	J
191-24-2	Benzo(g,h,i)perylene	470	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E0026

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041086

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ389

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 30 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

Number TICs found: 19

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.58	1600	JB
2.	UNKNOWN	8.34	3200	JB
3.	UNKNOWN	8.73	280	JB
4.	UNKNOWN	9.16	220	J
5.	UNKNOWN	9.32	2900	JB
6. 91-64-5	2H-1-BENZOPYRAN-2-ONE	15.14	140	NJ
7.	UNKNOWN	16.81	140	J
8. 57-10-3	N-HEXADECANOIC ACID	20.68	370	NJ
9.	UNKNOWN	22.73	170	J
10.	UNKNOWN	25.35	350	J
11. 53057-53-7	1,21-DOCOSADIENE	27.87	1200	NJ
12.	UNKNOWN	29.23	300	J
13.	UNKNOWN	30.22	380	J
14.	UNKNOWN	31.16	530	J
15.	UNKNOWN	31.35	750	J
16.	UNKNOWN	31.47	230	J
17. 1000214-20-7	STIGMASTEROL, 22,23-DIHYDRO-	32.03	810	NJ
18.	UNKNOWN	33.42	530	J
19.	UNKNOWN	33.59	530	J
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5-17-04

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0027

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041087

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ406

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 34 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2500	U
108-95-2	Phenol	2500	U
111-44-4	bis(2-Chloroethyl)Ether	2500	U
95-57-8	2-Chlorophenol	2500	U
95-48-7	2-Methylphenol	2500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2500	U
98-86-2	Acetophenone	2500	U
106-44-5	4-Methylphenol	2500	U
621-64-7	N-Nitroso-di-n-propylamine	2500	U
67-72-1	Hexachloroethane	2500	U
98-95-3	Nitrobenzene	2500	U
78-59-1	Isophorone	2500	U
88-75-5	2-Nitrophenol	2500	U
105-67-9	2,4-Dimethylphenol	2500	U
111-91-1	bis(2-Chloroethoxy)methane	2500	U
120-83-2	2,4-Dichlorophenol	2500	U
91-20-3	Naphthalene	2500	U
106-47-8	4-Chloroaniline	2500	U
87-68-3	Hexachlorobutadiene	2500	U
105-60-2	Caprolactam	2500	U
59-50-7	4-Chloro-3-methylphenol	2500	U
91-57-6	2-Methylnaphthalene	2500	U
77-47-4	Hexachlorocyclopentadiene	2500	U
88-06-2	2,4,6-Trichlorophenol	2500	U
95-95-4	2,4,5-Trichlorophenol	6300	U
92-52-4	1,1'-Biphenyl	2500	U
91-58-7	2-Chloronaphthalene	2500	U
88-74-4	2-Nitroaniline	6300	U
131-11-3	Dimethylphthalate	2500	U
606-20-2	2,6-Dinitrotoluene	2500	U
208-96-8	Acenaphthylene	2500	U
99-09-2	3-Nitroaniline	6300	U
83-32-9	Acenaphthene	2500	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0027

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041087

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ406

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 34 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6300	U
100-02-7	4-Nitrophenol	6300	U
132-64-9	Dibenzofuran	2500	U
121-14-2	2,4-Dinitrotoluene	2500	U
84-66-2	Diethylphthalate	2500	U
86-73-7	Fluorene	2500	U
7005-72-3	4-Chlorophenyl-phenylether	2500	U
100-01-6	4-Nitroaniline	6300	U
534-52-1	4,6-Dinitro-2-methylphenol	6300	U
86-30-6	N-Nitrosodiphenylamine (1)	2500	U
101-55-3	4-Bromophenyl-phenylether	2500	U
118-74-1	Hexachlorobenzene	2500	U
1912-24-9	Atrazine	2500	U
87-86-5	Pentachlorophenol	6300	U
85-01-8	Phenanthrene	3800	
120-12-7	Anthracene	650	J
86-74-8	Carbazole	430	J
84-74-2	Di-n-butylphthalate	2500	U
206-44-0	Fluoranthene	7400	
129-00-0	Pyrene	5600	
85-68-7	Butylbenzylphthalate	2500	U
91-94-1	3,3'-Dichlorobenzidine	2500	U
56-55-3	Benzo(a)anthracene	2900	
218-01-9	Chrysene	3600	
117-81-7	bis(2-Ethylhexyl)phthalate	630	J
117-84-0	Di-n-octylphthalate	2500	U
205-99-2	Benzo(b)fluoranthene	3100	
207-08-9	Benzo(k)fluoranthene	2900	
50-32-8	Benzo(a)pyrene	2300	J
193-39-5	Indeno(1,2,3-cd)pyrene	1700	J
53-70-3	Dibenzo(a,h)anthracene	560	J
191-24-2	Benzo(g,h,i)perylene	400	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E0027

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041087

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ406

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 34 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

Number TICs found: 23

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.58	1900	JB
2.	UNKNOWN	8.33	1500	JB
3.	UNKNOWN	9.14	530	J
4.	UNKNOWN	9.32	970	JB
5.	UNKNOWN	20.65	900	J
6. 84-65-1	9,10-ANTHRACENEDIONE	21.17	720	NJ
7. 33543-31-6	FLUORANTHENE, 2-METHYL-	23.44	990	NJ
8. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	24.90	730	NJ
9.	UNKNOWN	25.01	640	J
10. 2772-45-4	PHENOL, 2,4-BIS(1-METHYL-1-P	25.72	780	NJ
11.	UNKNOWN	25.76	640	J
12.	UNKNOWN	26.47	560	J
13.	UNKNOWN	26.84	620	J
14.	UNKNOWN	28.14	900	J
15.	UNKNOWN	28.49	1600	J
16.	UNKNOWN	28.89	630	J
17.	UNKNOWN	29.33	740	J
18.	UNKNOWN	29.36	640	J
19.	UNKNOWN	29.82	760	J
20.	UNKNOWN	30.49	730	J
21.	UNKNOWN	31.36	720	J
22.	UNKNOWN	31.37	740	J
23.	UNKNOWN	31.47	630	J
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0028

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041088

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ390

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 23 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0028

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041088

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ390

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 23 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	66	J
218-01-9	Chrysene	98	J
117-81-7	bis(2-Ethylhexyl)phthalate	100	J
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	99	J
207-08-9	Benzo(k)fluoranthene	89	J
50-32-8	Benzo(a)pyrene	160	J
193-39-5	Indeno(1,2,3-cd)pyrene	100	J
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0028

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041088

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ390

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 23 Decanted: (Y/N) N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

Number TICs found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.59	860	JB
2.	UNKNOWN	8.33	1700	JB
3.	UNKNOWN	8.73	260	JB
4.	UNKNOWN	9.16	300	J
5.	UNKNOWN	9.32	1600	JB
6.	UNKNOWN	14.72	210	J
7. 271-89-6	BENZOFURAN	15.14	130	NJ
8. 57-10-3	N-HEXADECANOIC ACID	20.68	210	NJ
9. 511-15-9	2-PHENANTHRENOL, 4B,5,6,7,8,	24.17	650	NJ
10.	UNKNOWN	24.25	130	J
11.	UNKNOWN	25.35	110	J
12.	UNKNOWN	27.87	330	J
13.	UNKNOWN	28.31	270	J
14.	UNKNOWN	28.34	220	J
15.	UNKNOWN	28.49	160	J
16.	UNKNOWN	28.90	140	J
17.	UNKNOWN	29.23	440	J
18.	UNKNOWN	29.86	180	J
19.	UNKNOWN	30.23	300	J
20.	UNKNOWN	31.17	380	J
21.	UNKNOWN	31.47	160	J
22.	UNKNOWN	32.04	580	J
23.	UNKNOWN	32.09	210	J
24. 1058-61-3	STIGMAST-4-EN-3-ONE	33.60	350	NJ
25.				
26.				
27.				
28.				
29.				
30.				

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0029

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ394

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 51 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	3400	U
108-95-2	Phenol	3400	U
111-44-4	bis(2-Chloroethyl)Ether	3400	U
95-57-8	2-Chlorophenol	3400	U
95-48-7	2-Methylphenol	3400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3400	U
98-86-2	Acetophenone	3400	U
106-44-5	4-Methylphenol	3400	U
621-64-7	N-Nitroso-di-n-propylamine	3400	U
67-72-1	Hexachloroethane	3400	U
98-95-3	Nitrobenzene	3400	U
78-59-1	Isophorone	3400	U
88-75-5	2-Nitrophenol	3400	U
105-67-9	2,4-Dimethylphenol	3400	U
111-91-1	bis(2-Chloroethoxy)methane	3400	U
120-83-2	2,4-Dichlorophenol	3400	U
91-20-3	Naphthalene	3400	U
106-47-8	4-Chloroaniline	3400	U
87-68-3	Hexachlorobutadiene	3400	U
105-60-2	Caprolactam	3400	U
59-50-7	4-Chloro-3-methylphenol	3400	U
91-57-6	2-Methylnaphthalene	3400	U
77-47-4	Hexachlorocyclopentadiene	3400	U
88-06-2	2,4,6-Trichlorophenol	3400	U
95-95-4	2,4,5-Trichlorophenol	8500	U
92-52-4	1,1'-Biphenyl	3400	U
91-58-7	2-Chloronaphthalene	3400	U
88-74-4	2-Nitroaniline	8500	U
131-11-3	Dimethylphthalate	3400	U
606-20-2	2,6-Dinitrotoluene	3400	U
208-96-8	Acenaphthylene	3400	U
99-09-2	3-Nitroaniline	8500	U
83-32-9	Acenaphthene	3400	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0029

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ394

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 51 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	8500	U
100-02-7	4-Nitrophenol	8500	U
132-64-9	Dibenzofuran	3400	U
121-14-2	2,4-Dinitrotoluene	3400	U
84-66-2	Diethylphthalate	3400	U
86-73-7	Fluorene	3400	U
7005-72-3	4-Chlorophenyl-phenylether	3400	U
100-01-6	4-Nitroaniline	8500	U
534-52-1	4,6-Dinitro-2-methylphenol	8500	U
86-30-6	N-Nitrosodiphenylamine (1)	3400	U
101-55-3	4-Bromophenyl-phenylether	3400	U
118-74-1	Hexachlorobenzene	3400	U
1912-24-9	Atrazine	3400	U
87-86-5	Pentachlorophenol	8500	U
85-01-8	Phenanthrene	440	J
120-12-7	Anthracene	3400	U
86-74-8	Carbazole	3400	U
84-74-2	Di-n-butylphthalate	3400	U
206-44-0	Fluoranthene	860	J
129-00-0	Pyrene	710	J
85-68-7	Butylbenzylphthalate	3400	U
91-94-1	3,3'-Dichlorobenzidine	3400	U
56-55-3	Benzo(a)anthracene	480	J
218-01-9	Chrysene	550	J
117-81-7	bis(2-Ethylhexyl)phthalate	3400	U
117-84-0	Di-n-octylphthalate	3400	U
205-99-2	Benzo(b)fluoranthene	530	J
207-08-9	Benzo(k)fluoranthene	560	J
50-32-8	Benzo(a)pyrene	430	J
193-39-5	Indeno(1,2,3-cd)pyrene	3400	U
53-70-3	Dibenzo(a,h)anthracene	3400	U
191-24-2	Benzo(g,h,i)perylene	3400	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0029

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ394

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 51 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.61	2000	JB
2.		UNKNOWN	8.36	1900	JB
3.		UNKNOWN	9.34	1400	JB
4.	118-65-0	BICYCLO[7.2.0]UNDEC-4-ENE, 4	15.76	1100	NJ
5.		UNKNOWN	19.73	720	J
6.		UNKNOWN	20.35	3300	J
7.	112-80-1	OLEIC ACID	22.42	1500	NJ
8.		UNKNOWN	22.90	4300	J
9.		UNKNOWN	24.62	1400	J
10.		UNKNOWN	25.72	1800	J
11.		UNKNOWN	27.85	1200	J
12.		UNKNOWN	28.89	940	J
13.		UNKNOWN	30.06	860	J
14.		UNKNOWN	31.15	1100	J
15.		UNKNOWN	32.05	2500	J
16.		UNKNOWN	32.12	2200	J
17.		UNKNOWN	32.15	2600	J
18.		UNKNOWN	32.22	780	J
19.		UNKNOWN	32.79	13000	J
20.		UNKNOWN	33.45	800	J
21.		UNKNOWN	33.61	810	J
22.		UNKNOWN	34.40	11000	J
23.		UNKNOWN	34.55	3000	J
24.					
25.					
26.					
27.					
28.					
29.					
30.					

5-17-04

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0030

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ387

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0030

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ387

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	65	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	110	J
218-01-9	Chrysene	120	J
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	140	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	93	J
193-39-5	Indeno(1,2,3-cd)pyrene	92	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0030

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ387

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 18 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.59	570	JB
2.		UNKNOWN	8.25	120	J
3.		UNKNOWN	8.34	1300	JB
4.		UNKNOWN	8.72	360	JB
5.		UNKNOWN	9.32	1600	JB
6.		UNKNOWN	10.79	81	JB
7.		UNKNOWN	13.87	97	JB
8.		UNKNOWN	25.57	110	J
9.		UNKNOWN	27.86	170	J
10.		UNKNOWN	29.22	170	J
11.		UNKNOWN	29.57	170	J
12.		UNKNOWN	31.13	98	J
13.		UNKNOWN	32.05	280	J
14.		UNKNOWN	32.12	120	J
15.		UNKNOWN	32.14	100	J
16.		UNKNOWN	33.41	94	J
17.		UNKNOWN	33.43	100	J
18.		UNKNOWN	33.58	200	J
19.		UNKNOWN	33.60	160	J
20.	20475-86-9	URS-12-EN-24-OIC ACID, 3-OXO	34.23	270	NJ
21.					
22.					
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29.					
30.					

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0031

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041091

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ391

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 41 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	560	U
108-95-2	Phenol	560	U
111-44-4	bis(2-Chloroethyl)Ether	560	U
95-57-8	2-Chlorophenol	560	U
95-48-7	2-Methylphenol	560	U
108-60-1	2,2'-oxybis(1-Chloropropane)	560	U
98-86-2	Acetophenone	560	U
106-44-5	4-Methylphenol	560	U
621-64-7	N-Nitroso-di-n-propylamine	560	U
67-72-1	Hexachloroethane	560	U
98-95-3	Nitrobenzene	560	U
78-59-1	Isophorone	560	U
88-75-5	2-Nitrophenol	560	U
105-67-9	2,4-Dimethylphenol	560	U
111-91-1	bis(2-Chloroethoxy)methane	560	U
120-83-2	2,4-Dichlorophenol	560	U
91-20-3	Naphthalene	77	J
106-47-8	4-Chloroaniline	560	U
87-68-3	Hexachlorobutadiene	560	U
105-60-2	Caprolactam	560	U
59-50-7	4-Chloro-3-methylphenol	560	U
91-57-6	2-Methylnaphthalene	80	J
77-47-4	Hexachlorocyclopentadiene	560	U
88-06-2	2,4,6-Trichlorophenol	560	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	560	U
91-58-7	2-Chloronaphthalene	560	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	560	U
606-20-2	2,6-Dinitrotoluene	560	U
208-96-8	Acenaphthylene	250	J
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	88	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0031

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041091

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ391

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 41 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	88	J
121-14-2	2,4-Dinitrotoluene	560	U
84-66-2	Diethylphthalate	560	U
86-73-7	Fluorene	160	J
7005-72-3	4-Chlorophenyl-phenylether	560	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	560	U
101-55-3	4-Bromophenyl-phenylether	560	U
118-74-1	Hexachlorobenzene	560	U
1912-24-9	Atrazine	560	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	480	J
86-74-8	Carbazole	160	J
84-74-2	Di-n-butylphthalate	560 ~~130~~	JB
206-44-0	Fluoranthene	2500	
129-00-0	Pyrene	2100	
85-68-7	Butylbenzylphthalate	100	J
91-94-1	3,3'-Dichlorobenzidine	560	U
56-55-3	Benzo(a)anthracene	1400	
218-01-9	Chrysene	1700	
117-81-7	bis(2-Ethylhexyl)phthalate	350	J
117-84-0	Di-n-octylphthalate	560	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	1400	
50-32-8	Benzo(a)pyrene	970	
193-39-5	Indeno(1,2,3-cd)pyrene	810	
53-70-3	Dibenzo(a,h)anthracene	330	J
191-24-2	Benzo(g,h,i)perylene	120	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0031

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041091

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ391

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 41 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

4/14 5-14-04

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.58	1600	JB
2.		UNKNOWN	8.34	1300	JB
3.		UNKNOWN	9.32	1300	JB
4.	96-76-4	PHENOL, 2,4-BIS(1,1-DIMETHYL	15.86	370	NJ
5.		UNKNOWN	20.66	360	J
6.		UNKNOWN	20.67	360	J
7.	2381-21-7	PYRENE, 1-METHYL-	23.44	520	NJ
8.		UNKNOWN	23.73	490	J
9.		UNKNOWN	25.25	840	J
10.		UNKNOWN	26.12	420	J
11.	1705-84-6	TRIPHENYLENE, 2-METHYL-	26.48	480	J
12.		UNKNOWN	26.85	430	J
13.		UNKNOWN	27.13	650	J
14.	1843-05-6	OCTABENZONE	27.60	890	NJ
15.		UNKNOWN	27.69	950	J
16.		UNKNOWN	28.50	720	J
17.		UNKNOWN	28.91	400	J
18.		UNKNOWN	29.84	490	J
19.		UNKNOWN	30.51	530	J
20.		UNKNOWN	31.15	420	J
21.		UNKNOWN	31.37	430	J
22.		UNKNOWN	31.40	510	J
23.					
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0032

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041092

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ407

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 14 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 9.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	bis(2-Chloroethyl)Ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	bis(2-Chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	4800	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4800	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	4800	U
83-32-9	Acenaphthene	1900	U

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

E0032

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041092

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ407

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 14 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 9.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4800	U
100-02-7	4-Nitrophenol	4800	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	4800	U
534-52-1	4,6-Dinitro-2-methylphenol	4800	U
86-30-6	N-Nitrosodiphenylamine (1)	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	4800	U
85-01-8	Phenanthrene	300	J
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	800	J
129-00-0	Pyrene	950	J
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	700	J
218-01-9	Chrysene	890	J
117-81-7	bis(2-Ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	980	J
207-08-9	Benzo(k)fluoranthene	890	J
50-32-8	Benzo(a)pyrene	590	J
193-39-5	Indeno(1,2,3-cd)pyrene	510	J
53-70-3	Dibenzo(a,h)anthracene	230	J
191-24-2	Benzo(g,h,i)perylene	1900	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0032

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041092

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ407

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 14 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 9.7 Extraction: (Type) SONC

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.59	760	JB u
2.	UNKNOWN	8.33	1100	JB u
3.	UNKNOWN	25.23	420	J
4.	UNKNOWN	28.00	390	J
5.	UNKNOWN	28.14	430	J
6.	UNKNOWN	28.49	440	J
7.	UNKNOWN	30.01	410	J
8.	UNKNOWN	31.33	400	J
9.	UNKNOWN	31.37	400	J
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RCM 5-12-04

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ388

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ388

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	140	J
120-12-7	Anthracene	49	J
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430 ~~77~~	JB U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	290	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	280	J
218-01-9	Chrysene	370	J
117-81-7	bis(2-Ethylhexyl)phthalate	75	J
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	300	J
207-08-9	Benzo(k)fluoranthene	280	J
50-32-8	Benzo(a)pyrene	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	J
53-70-3	Dibenzo(a,h)anthracene	89	J
191-24-2	Benzo(g,h,i)perylene	48	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0033

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ388

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 24 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.59	690	JB
2.	UNKNOWN	8.34	1800	JB
3.	UNKNOWN	8.73	190	JB
4.	UNKNOWN	9.32	1400	JB
5.	UNKNOWN	10.79	100	JB
6.	UNKNOWN	13.87	110	JB
7.	UNKNOWN	20.14	98	J
8.	UNKNOWN	20.67	120	J
9.	UNKNOWN	21.91	140	J
10.	UNKNOWN	22.19	160	J
11.	UNKNOWN	26.27	130	J
12.	UNKNOWN	27.85	200	J
13.	UNKNOWN	28.15	160	J
14.	UNKNOWN	28.25	180	J
15.	UNKNOWN	28.47	210	J
16.	UNKNOWN	29.84	130	J
17.	UNKNOWN	30.23	210	J
18.	UNKNOWN	30.51	160	J
19.	UNKNOWN	30.65	120	J
20.	UNKNOWN	31.13	2000	J
21.	UNKNOWN	32.04	180	J
22.	UNKNOWN	32.06	210	J
23.	UNKNOWN	32.13	130	J
24.	UNKNOWN	32.36	180	J
25.	UNKNOWN	33.25	350	J
26.	UNKNOWN	33.45	310	J
27.	UNKNOWN	34.08	2400	J
28.				
29.				
30.				

5-17-04

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ395

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	2300	
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	2200	
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	2600	
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	1600	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ395

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	3200	
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	1700	
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	2700	
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	77	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	56	J
218-01-9	Chrysene	87	J
117-81-7	bis(2-Ethylhexyl)phthalate	64	J
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	79	J
207-08-9	Benzo(k)fluoranthene	79	J
50-32-8	Benzo(a)pyrene	67	J
193-39-5	Indeno(1,2,3-cd)pyrene	63	J
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ396

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	2300	
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	2100	
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	2800	
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	1700	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ396

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 24 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	3900	E
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	1900	
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	2800	
85-01-8	Phenanthrene	83	J
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430 ~~54~~	JB
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	1900	
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	190	J
117-81-7	bis(2-Ethylhexyl)phthalate	53	J
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	160	J
207-08-9	Benzo(k)fluoranthene	170	J
50-32-8	Benzo(a)pyrene	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	54	J
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0035

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ393

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 33 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2500	U
108-95-2	Phenol	2500	U
111-44-4	bis(2-Chloroethyl)Ether	2500	U
95-57-8	2-Chlorophenol	2500	U
95-48-7	2-Methylphenol	2500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2500	U
98-86-2	Acetophenone	2500	U
106-44-5	4-Methylphenol	2500	U
621-64-7	N-Nitroso-di-n-propylamine	2500	U
67-72-1	Hexachloroethane	2500	U
98-95-3	Nitrobenzene	2500	U
78-59-1	Isophorone	2500	U
88-75-5	2-Nitrophenol	2500	U
105-67-9	2,4-Dimethylphenol	2500	U
111-91-1	bis(2-Chloroethoxy)methane	2500	U
120-83-2	2,4-Dichlorophenol	2500	U
91-20-3	Naphthalene	2500	U
106-47-8	4-Chloroaniline	2500	U
87-68-3	Hexachlorobutadiene	2500	U
105-60-2	Caprolactam	2500	U
59-50-7	4-Chloro-3-methylphenol	2500	U
91-57-6	2-Methylnaphthalene	340	J
77-47-4	Hexachlorocyclopentadiene	2500	U
88-06-2	2,4,6-Trichlorophenol	2500	U
95-95-4	2,4,5-Trichlorophenol	6200	U
92-52-4	1,1'-Biphenyl	2500	U
91-58-7	2-Chloronaphthalene	2500	U
88-74-4	2-Nitroaniline	6200	U
131-11-3	Dimethylphthalate	2500	U
606-20-2	2,6-Dinitrotoluene	2500	U
208-96-8	Acenaphthylene	560	J
99-09-2	3-Nitroaniline	6200	U
83-32-9	Acenaphthene	2500	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0035

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ393

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 33 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6200	U
100-02-7	4-Nitrophenol	6200	U
132-64-9	Dibenzofuran	2500	U
121-14-2	2,4-Dinitrotoluene	2500	U
84-66-2	Diethylphthalate	2500	U
86-73-7	Fluorene	2500	U
7005-72-3	4-Chlorophenyl-phenylether	2500	U
100-01-6	4-Nitroaniline	6200	U
534-52-1	4,6-Dinitro-2-methylphenol	6200	U
86-30-6	N-Nitrosodiphenylamine (1)	2500	U
101-55-3	4-Bromophenyl-phenylether	2500	U
118-74-1	Hexachlorobenzene	2500	U
1912-24-9	Atrazine	2500	U
87-86-5	Pentachlorophenol	6200	U
85-01-8	Phenanthrene	1300	J
120-12-7	Anthracene	420	J
86-74-8	Carbazole	310	J
84-74-2	Di-n-butylphthalate	2500	U
206-44-0	Fluoranthene	3100	
129-00-0	Pyrene	2400	J
85-68-7	Butylbenzylphthalate	2500	U
91-94-1	3,3'-Dichlorobenzidine	2500	U
56-55-3	Benzo(a)anthracene	2100	J
218-01-9	Chrysene	2700	
117-81-7	bis(2-Ethylhexyl)phthalate	2500	U
117-84-0	Di-n-octylphthalate	2500	U
205-99-2	Benzo(b)fluoranthene	3100	
207-08-9	Benzo(k)fluoranthene	2600	
50-32-8	Benzo(a)pyrene	1100	J
193-39-5	Indeno(1,2,3-cd)pyrene	930	J
53-70-3	Dibenzo(a,h)anthracene	530	J
191-24-2-	Benzo(g,h,i)perylene	2500	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0035

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ393

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 33 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.61	1400	JB u
2.		UNKNOWN	8.35	2700	JB u
3.		UNKNOWN	9.33	2800	JB
4.	573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	14.86	580	NJ
5.		UNKNOWN	15.14	1000	J
6.		UNKNOWN	15.62	690	J
7.		UNKNOWN	16.81	750	J
8.		UNKNOWN	17.37	830	J
9.		UNKNOWN	18.65	840	J
10.		UNKNOWN	20.67	700	J
11.		UNKNOWN	22.87	770	J
12.		UNKNOWN	23.42	730	J
13.		UNKNOWN	23.45	680	J
14.		UNKNOWN	23.73	800	J
15.	82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	24.69	750	NJ
16.		UNKNOWN	25.35	750	J
17.		UNKNOWN	26.12	620	J
18.		UNKNOWN	26.49	620	J
19.		UNKNOWN	28.15	1100	J
20.		UNKNOWN	28.51	990	J
21.		UNKNOWN	29.58	990	J
22.		UNKNOWN	30.52	890	J
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QCA 5-19-04

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0036

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041095

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ385

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 27 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)Ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0036

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041095

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ385

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 27 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	83	J
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450 ~~140~~	JB U
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	260	J
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	82	J
218-01-9	Chrysene	140	J
117-81-7	bis(2-Ethylhexyl)phthalate	59	J
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	130	J
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	150	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	57	J
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0036

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041095

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ385

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 27 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.58	1600	JB
2.		UNKNOWN	8.34	2500	JB
3.		UNKNOWN	8.74	140	JBu
4.		UNKNOWN	9.15	520	J
5.		UNKNOWN	9.32	1500	JB
6.	541-02-6	CYCLOPENTASILOXANE, DECAMETH	10.79	130	NJ
7.		UNKNOWN	13.87	260	JBu
8.		UNKNOWN	16.89	210	J
9.	57-10-3	N-HEXADECANOIC ACID	20.68	490	NJ
10.		UNKNOWN	23.73	160	J
11.		UNKNOWN	24.84	160	J
12.		UNKNOWN	27.56	270	J
13.	67860-04-2	OXIRANE, HEPTADECYL-	27.86	630	NJ
14.		UNKNOWN	28.33	450	J
15.		UNKNOWN	28.90	180	J
16.		UNKNOWN	29.85	200	J
17.		UNKNOWN	31.59	200	J
18.		UNKNOWN	31.61	210	J
19.		UNKNOWN	32.05	650	J
20.		UNKNOWN	32.12	380	J
21.		UNKNOWN	32.60	340	J
22.		UNKNOWN	33.41	180	J
23.	1058-61-3	STIGMAST-4-EN-3-ONE	33.58	660	NJ
24.					
25.					
26.					
27.					
28.					
29.					
30.					

5-17-04

FORM I SV-TIC OLM04.3

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0037

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041096

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ386

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 26 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)Ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0037

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041096

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ386

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 26 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	87	J
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450 ~~83~~	JB U
206-44-0	Fluoranthene	240	J
129-00-0	Pyrene	330	J
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	110	J
218-01-9	Chrysene	180	J
117-81-7	bis(2-Ethylhexyl)phthalate	61	J
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	180	J
207-08-9	Benzo(k)fluoranthene	150	J
50-32-8	Benzo(a)pyrene	220	J
193-39-5	Indeno(1,2,3-cd)pyrene	160	J
53-70-3	Dibenzo(a,h)anthracene	49	J
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0037

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041096

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ386

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 26 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.58	1900	JB
2.		UNKNOWN	8.34	640	JB u
3.		UNKNOWN	9.15	500	J
4.		UNKNOWN	9.32	1500	JB
5.	541-02-6	CYCLOPENTASILOXANE, DECAMETH	10.79	120	NJ
6.		UNKNOWN	13.87	210	JB u
7.		UNKNOWN	16.89	180	J
8.		UNKNOWN	19.29	120	J
9.	57-10-3	N-HEXADECANOIC ACID	20.68	450	NJ
10.	14811-95-1	1,19-EICOSADIENE	27.86	500	NJ
11.	71502-22-2	9-HEXACOSENE	28.33	360	NJ
12.		UNKNOWN	28.48	210	J
13.		UNKNOWN	29.09	170	J
14.		UNKNOWN	29.85	310	J
15.		UNKNOWN	31.48	210	J
16.		UNKNOWN	31.60	190	J
17.	83-47-6	.GAMMA.-SITOSTEROL	32.05	600	NJ
18.		UNKNOWN	32.13	260	J
19.		UNKNOWN	32.60	320	J
20.		UNKNOWN	33.41	170	J
21.		UNKNOWN	33.59	620	J
22.					
23.					
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25.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0038

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ404

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 60 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	4100	U
108-95-2	Phenol	4100	U
111-44-4	bis(2-Chloroethyl)Ether	4100	U
95-57-8	2-Chlorophenol	4100	U
95-48-7	2-Methylphenol	4100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4100	U
98-86-2	Acetophenone	4100	U
106-44-5	4-Methylphenol	4100	U
621-64-7	N-Nitroso-di-n-propylamine	4100	U
67-72-1	Hexachloroethane	4100	U
98-95-3	Nitrobenzene	4100	U
78-59-1	Isophorone	4100	U
88-75-5	2-Nitrophenol	4100	U
105-67-9	2,4-Dimethylphenol	4100	U
111-91-1	bis(2-Chloroethoxy)methane	4100	U
120-83-2	2,4-Dichlorophenol	4100	U
91-20-3	Naphthalene	4100	U
106-47-8	4-Chloroaniline	4100	U
87-68-3	Hexachlorobutadiene	4100	U
105-60-2	Caprolactam	4100	U
59-50-7	4-Chloro-3-methylphenol	4100	U
91-57-6	2-Methylnaphthalene	4100	U
77-47-4	Hexachlorocyclopentadiene	4100	U
88-06-2	2,4,6-Trichlorophenol	4100	U
95-95-4	2,4,5-Trichlorophenol	10000	U
92-52-4	1,1'-Biphenyl	4100	U
91-58-7	2-Chloronaphthalene	4100	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethylphthalate	4100	U
606-20-2	2,6-Dinitrotoluene	4100	U
208-96-8	Acenaphthylene	1300	J
99-09-2	3-Nitroaniline	10000	U
83-32-9	Acenaphthene	4100	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0038

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ404

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 60 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	4100	U
121-14-2	2,4-Dinitrotoluene	4100	U
84-66-2	Diethylphthalate	4100	U
86-73-7	Fluorene	4100	U
7005-72-3	4-Chlorophenyl-phenylether	4100	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	4100	U
101-55-3	4-Bromophenyl-phenylether	4100	U
118-74-1	Hexachlorobenzene	4100	U
1912-24-9	Atrazine	4100	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	1500	J
120-12-7	Anthracene	1100	J
86-74-8	Carbazole	4100	U
84-74-2	Di-n-butylphthalate	4100 ~~340~~	JB
206-44-0	Fluoranthene	12000	
129-00-0	Pyrene	15000	
85-68-7	Butylbenzylphthalate	820	J
91-94-1	3,3'-Dichlorobenzidine	4100	U
56-55-3	Benzo(a)anthracene	8500	
218-01-9	Chrysene	10000	
117-81-7	bis(2-Ethylhexyl)phthalate	13000	
117-84-0	Di-n-octylphthalate	4100	U
205-99-2	Benzo(b)fluoranthene	11000	
207-08-9	Benzo(k)fluoranthene	9600	
50-32-8	Benzo(a)pyrene	7800	
193-39-5	Indeno(1,2,3-cd)pyrene	6000	
53-70-3	Dibenzo(a,h)anthracene	2000	J
191-24-2	Benzo(g,h,i)perylene	1300	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E0038

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ404

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 60 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.58	3200	JB
2.	UNKNOWN	8.34	2300	JB
3.	UNKNOWN	9.32	1500	JB
4.	UNKNOWN	20.66	1600	J
5. 238-84-6	11H-BENZO[A]FLUORENE	23.42	2200	NJ
6. 2381-21-7	PYRENE, 1-METHYL-	23.66	1400	NJ
7.	UNKNOWN	23.71	1100	J
8. 3353-12-6	PYRENE, 4-METHYL-	23.88	1100	NJ
9.	UNKNOWN	24.67	1500	J
10. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	24.91	1700	NJ
11.	UNKNOWN	25.02	1900	J
12.	UNKNOWN	25.15	1200	J
13.	UNKNOWN	25.40	1400	J
14.	UNKNOWN	25.68	1100	J
15.	UNKNOWN	25.76	1500	J
16. 2498-77-3	BENZ[A]ANTHRACENE, 1-METHYL-	26.47	1800	NJ
17. 1000195-60-2	1-BROMO-11-IODOUNDECANE	27.84	1400	NJ
18.	UNKNOWN	28.14	3500	J
19.	UNKNOWN	28.34	1800	J
20. 192-97-2	BENZO[E]PYRENE	28.49	5900	NJ
21.	UNKNOWN	28.75	2000	J
22.	UNKNOWN	28.89	1800	J
23.	UNKNOWN	29.04	1400	J
24.	UNKNOWN	29.82	1700	J
25.	UNKNOWN	30.74	1600	J
26.	UNKNOWN	31.27	1400	J
27.	UNKNOWN	33.57	1600	J
28.				
29.				
30.				

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0039

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041098

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ403

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 63 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	4500	U
108-95-2	Phenol	4500	U
111-44-4	bis(2-Chloroethyl)Ether	4500	U
95-57-8	2-Chlorophenol	4500	U
95-48-7	2-Methylphenol	4500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4500	U
98-86-2	Acetophenone	4500	U
106-44-5	4-Methylphenol	4500	U
621-64-7	N-Nitroso-di-n-propylamine	4500	U
67-72-1	Hexachloroethane	4500	U
98-95-3	Nitrobenzene	4500	U
78-59-1	Isophorone	4500	U
88-75-5	2-Nitrophenol	4500	U
105-67-9	2,4-Dimethylphenol	4500	U
111-91-1	bis(2-Chloroethoxy)methane	4500	U
120-83-2	2,4-Dichlorophenol	4500	U
91-20-3	Naphthalene	4500	U
106-47-8	4-Chloroaniline	4500	U
87-68-3	Hexachlorobutadiene	4500	U
105-60-2	Caprolactam	4500	U
59-50-7	4-Chloro-3-methylphenol	4500	U
91-57-6	2-Methylnaphthalene	4500	U
77-47-4	Hexachlorocyclopentadiene	4500	U
88-06-2	2,4,6-Trichlorophenol	4500	U
95-95-4	2,4,5-Trichlorophenol	11000	U
92-52-4	1,1'-Biphenyl	4500	U
91-58-7	2-Chloronaphthalene	4500	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	4500	U
606-20-2	2,6-Dinitrotoluene	4500	U
208-96-8	Acenaphthylene	4500	U
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	4500	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0039

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041098

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ403

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 63 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	4500	U
121-14-2	2,4-Dinitrotoluene	4500	U
84-66-2	Diethylphthalate	4500	U
86-73-7	Fluorene	4500	U
7005-72-3	4-Chlorophenyl-phenylether	4500	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	4500	U
101-55-3	4-Bromophenyl-phenylether	4500	U
118-74-1	Hexachlorobenzene	4500	U
1912-24-9	Atrazine	4500	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	2600	J
120-12-7	Anthracene	540	J
86-74-8	Carbazole	4500	U
84-74-2	Di-n-butylphthalate	4500	U
206-44-0	Fluoranthene	6700	
129-00-0	Pyrene	6500	
85-68-7	Butylbenzylphthalate	4500	U
91-94-1	3,3'-Dichlorobenzidine	4500	U
56-55-3	Benzo(a)anthracene	3200	J
218-01-9	Chrysene	4300	J
117-81-7	bis(2-Ethylhexyl)phthalate	1500	J
117-84-0	Di-n-octylphthalate	4500	U
205-99-2	Benzo(b)fluoranthene	4300	J
207-08-9	Benzo(k)fluoranthene	3700	J
50-32-8	Benzo(a)pyrene	4300	J
193-39-5	Indeno(1,2,3-cd)pyrene	3300	J
53-70-3	Dibenzo(a,h)anthracene	970	J
191-24-2	Benzo(g,h,i)perylene	1400	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0039

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041098

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ403

Level: (low/med) LOW Date Received: 04/01/04

% Moisture: 63 Decanted: (Y/N) N Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/15/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.59	3000	JB
2.	UNKNOWN	8.34	2000	JB
3.	UNKNOWN	9.32	2000	JB
4.	UNKNOWN	18.01	1700	J
5.	UNKNOWN	20.65	1000	J
6.	UNKNOWN	21.79	1700	J
7.	UNKNOWN	22.28	1600	J
8.	UNKNOWN	23.43	1200	J
9.	UNKNOWN	24.22	4000	J
10.	UNKNOWN	24.26	1600	J
11.	UNKNOWN	24.54	3400	J
12.	UNKNOWN	24.62	1100	J
13.	UNKNOWN	25.01	1400	J
14.	UNKNOWN	25.76	1100	J
15.	UNKNOWN	26.46	1000	J
16. 1000188-56-5	HYDRAZINE,1-(3-NITROPHENYLME	28.13	1400	NJ
17.	UNKNOWN	28.23	2600	J
18.	UNKNOWN	28.34	1400	J
19. 192-97-2	BENZO[E]PYRENE	28.48	3900	NJ
20.	UNKNOWN	28.75	1700	J
21.	UNKNOWN	29.56	2100	J
22.	UNKNOWN	29.82	1900	J
23.	UNKNOWN	30.48	1900	J
24.	UNKNOWN	31.16	2900	J
25.	UNKNOWN	31.36	1500	J
26.	UNKNOWN	32.03	1200	J
27.	UNKNOWN	32.04	1300	J
28.	UNKNOWN	32.06	1300	J
29.	UNKNOWN	32.10	1400	J
30.	UNKNOWN	32.11	1600	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK39

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 0408SSB1

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ382

Level: (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK39

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 0408SSB1

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GQ382

Level: (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	35	J
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	54	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK39

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 0408SSB1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H73GQ382

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:04/08/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 04/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.61	210	J
2.		UNKNOWN	8.36	170	J
3.		UNKNOWN	8.73	80	J
4.		UNKNOWN	9.34	74	J
5.		UNKNOWN	10.79	140	J
6.		UNKNOWN	13.87	87	J
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
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29.					
30.					

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK93	101	93	137	119			0
02	PBLK95	94	87	97	92			0
03	E0020	128	106	239*	258*			2
04	E0021	138	109	260*	283*			2
05	E0022	151*	102	1400*	1430*			3
06	E0023	114	100	168*	151*			2
07	E0024	135	121	162*	166*			2
08	E0025	131	112	144	140			0
09	E0026	131	115	255*	184*			2
10	E0027	167*	120	255*	263*			3
11	E0028	133	118	134	126			0
12	E0029	97	92	126	133			0
13	E0030	125	110	138	138			0
14	E0031	145	114	247*	169*			2
15	E0032	121	109	229*	196*			2
16	E0033	108	102	166*	194*			2
17	E0035	126	104	1420*	313*			2
18	E0036	115	103	140	154*			1
19	E0037	105	100	132	173*			1
20	E0038	132	111	1768*	538*			2
21	E0039	122	108	194*	221*			2
22	E0033MS	109	102	153*	179*			2
23	E0033MSD	112	103	154*	178*			2

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix Spike - EPA Sample No.: E0033

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	21.900	0	26.3	120	46-127
Heptachlor	21.900	0	27.0	123	35-130
Aldrin	21.900	0	24.6	112	34-132
Dieldrin	43.800	25.0	74.9	114	31-134
Endrin	43.800	18.6	73.5	125	42-139
4,4'-DDT	43.800	0	73.6	168 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	21.900	25.9	118	2	50	46-127
Heptachlor	21.900	26.2	120	2	31	35-130
Aldrin	21.900	24.2	111	1	43	34-132
Dieldrin	43.800	73.0	110	4	38	31-134
Endrin	43.800	70.7	119	5	45	42-139
4,4'-DDT	43.800	78.2	179 *	6	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK93

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Lab Sample ID: 0407PSB1 Lab File ID:

Matrix: (soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 04/07/04

Date Analyzed (1): 04/22/04 Date Analyzed (2): 04/22/04

Time Analyzed (1): 0149 Time Analyzed (2): 0149

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E0020	04041080	04/22/04	04/22/04
02	E0021	04041081	04/22/04	04/22/04
03	E0022	04041082	04/22/04	04/22/04
04	E0023	04041083	04/22/04	04/22/04
05	E0024	04041084	04/22/04	04/22/04
06	E0025	04041085	04/22/04	04/22/04
07	E0026	04041086	04/22/04	04/22/04
08	E0027	04041087	04/22/04	04/22/04
09	E0028	04041088	04/22/04	04/22/04
10	E0029	04041089	04/22/04	04/22/04
11	E0030	04041090	04/22/04	04/22/04
12	E0031	04041091	04/22/04	04/22/04
13	E0032	04041092	04/22/04	04/22/04
14	E0033	04041093	04/21/04	04/21/04
15	E0035	04041094	04/21/04	04/21/04
16	E0036	04041095	04/21/04	04/21/04
17	E0037	04041096	04/21/04	04/21/04
18	E0038	04041097	04/21/04	04/21/04
19	E0039	04041098	04/21/04	04/21/04

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK95

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Lab Sample ID: 0408PSB1 Lab File ID:

Matrix: (soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 04/08/04

Date Analyzed (1): 04/22/04 Date Analyzed (2): 04/22/04

Time Analyzed (1): 2212 Time Analyzed (2): 2212

Instrument ID (1): HP90C1 Instrument ID (2): HP90C2

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E0033MS	04041093MS	04/22/04	04/22/04
02	E0033MSD	04041093MSD	04/22/04	04/22/04

COMMENTS:

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0020

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041080

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 35 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	P
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	JP
1024-57-3	Heptachlor epoxide	3.9	P
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.1	U
72-55-9	4,4'-DDE	5.1	U
72-20-8	Endrin	7.3	P
33213-65-9	Endosulfan II	5.1	U
72-54-8	4,4'-DDD	5.7	P
1031-07-8	Endosulfan sulfate	5.1	U
50-29-3	4,4'-DDT	5.1	U
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.1	U
7421-93-4	Endrin aldehyde	5.1	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	51	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	51	U
53469-21-9	Aroclor-1242	51	U
12672-29-6	Aroclor-1248	51	U
11097-69-1	Aroclor-1254	51	U
11096-82-5	Aroclor-1260	51	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0021

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041081

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 35 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.8	P
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.8	P
1024-57-3	Heptachlor epoxide	4.5	
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.1	U
72-55-9	4,4'-DDE	5.1	U
72-20-8	Endrin	6.6	P
33213-65-9	Endosulfan II	5.1	U
72-54-8	4,4'-DDD	6.3	P
1031-07-8	Endosulfan sulfate	12	P
50-29-3	4,4'-DDT	5.1	U
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.1	U
7421-93-4	Endrin aldehyde	5.1	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	51	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	51	U
53469-21-9	Aroclor-1242	51	U
12672-29-6	Aroclor-1248	51	U
11097-69-1	Aroclor-1254	51	U
11096-82-5	Aroclor-1260	51	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0022

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041082

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 37 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	15	P
319-85-7	beta-BHC	11	P
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	8.3	P
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	15	P
33213-65-9	Endosulfan II	10	P
72-54-8	4,4'-DDD	20	P
1031-07-8	Endosulfan sulfate	22	P
50-29-3	4,4'-DDT	15	P
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	52	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	52	U
11096-82-5	Aroclor-1260	52	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0023

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041083

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	2.2	P
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	17	
959-98-8	Endosulfan I	2.3	P
60-57-1	Dieldrin	17	
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	13	P
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	86	P
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	27	P
5103-71-9	alpha-Chlordane	13	P
5103-74-2	gamma-Chlordane	25	
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	410	
11096-82-5	Aroclor-1260	36	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0024

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041084

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 18 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.3	
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	3.6	P
5103-74-2	gamma-Chlordane	2.6	P
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0025

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041085

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	5.6	P
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0026

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041086

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 30 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	J
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.7	U
72-55-9	4,4'-DDE	16	
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	6.0	
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	50	P
50-29-3	4,4'-DDT	20	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	6.3	P
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0027

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041087

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 34 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	4.9	
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	7.2	P
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	14	P
72-55-9	4,4'-DDE	7.2	P
72-20-8	Endrin	5.0	U
33213-65-9	Endosulfan II	5.0	U
72-54-8	4,4'-DDD	5.0	U
1031-07-8	Endosulfan sulfate	58	P
50-29-3	4,4'-DDT	24	
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.0	U
7421-93-4	Endrin aldehyde	5.0	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	50	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	50	U
53469-21-9	Aroclor-1242	50	U
12672-29-6	Aroclor-1248	50	U
11097-69-1	Aroclor-1254	50	U
11096-82-5	Aroclor-1260	220	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0028

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041088

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0029

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041089

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 51 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.5	U
319-85-7	beta-BHC	3.5	U
319-86-8	delta-BHC	3.5	U
58-89-9	gamma-BHC (Lindane)	3.5	U
76-44-8	Heptachlor	3.5	U
309-00-2	Aldrin	3.5	U
1024-57-3	Heptachlor epoxide	3.5	U
959-98-8	Endosulfan I	3.5	U
60-57-1	Dieldrin	6.7	U
72-55-9	4,4'-DDE	6.7	U
72-20-8	Endrin	6.7	U
33213-65-9	Endosulfan II	6.7	U
72-54-8	4,4'-DDD	6.7	U
1031-07-8	Endosulfan sulfate	6.7	U
50-29-3	4,4'-DDT	6.7	U
72-43-5	Methoxychlor	35	U
53494-70-5	Endrin ketone	6.7	U
7421-93-4	Endrin aldehyde	6.7	U
5103-71-9	alpha-Chlordane	3.5	U
5103-74-2	gamma-Chlordane	3.5	U
8001-35-2	Toxaphene	350	U
12674-11-2	Aroclor-1016	67	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	67	U
53469-21-9	Aroclor-1242	67	U
12672-29-6	Aroclor-1248	67	U
11097-69-1	Aroclor-1254	100	P
11096-82-5	Aroclor-1260	110	P

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0030

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041090

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 18 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0031

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041091

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 41 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC (Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	7.6	P
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	5.6	U
33213-65-9	Endosulfan II	5.6	U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	24	P
50-29-3	4,4'-DDT	11	P
72-43-5	Methoxychlor	29	U
53494-70-5	Endrin ketone	5.6	U
7421-93-4	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	8.8	P
8001-35-2	Toxaphene	290	U
12674-11-2	Aroclor-1016	56	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	56	U
53469-21-9	Aroclor-1242	56	U
12672-29-6	Aroclor-1248	56	U
11097-69-1	Aroclor-1254	56	U
11096-82-5	Aroclor-1260	56	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0032

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041092

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 14 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	5.0	P
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	22	P
50-29-3	4,4'-DDT	12	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	4.3	P
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	6.1	P
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	17	
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	25	
72-55-9	4,4'-DDE	11	P
72-20-8	Endrin	19	P
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	10	
5103-71-9	alpha-Chlordane	17	P
5103-74-2	gamma-Chlordane	28	
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	430	
11096-82-5	Aroclor-1260	300	

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MS

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/08/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	26	
76-44-8	Heptachlor	27	
309-00-2	Aldrin	25	P
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	75	
72-55-9	4,4'-DDE	9.9	P
72-20-8	Endrin	73	E
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.4	P
50-29-3	4,4'-DDT	74	E
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	14	P
5103-74-2	gamma-Chlordane	22	
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	180	P

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0033MSD

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041093MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/08/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	26	
76-44-8	Heptachlor	26	
309-00-2	Aldrin	24	
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	73	E
72-55-9	4,4'-DDE	9.7	P
72-20-8	Endrin	71	E
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	78	E
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	13	P
5103-74-2	gamma-Chlordane	18	P
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	190	P
11096-82-5	Aroclor-1260	170	P

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0035

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041094

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 33 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.6	P
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	11	P
959-98-8	Endosulfan I	4.6	
60-57-1	Dieldrin	12	P
72-55-9	4,4'-DDE	11	P
72-20-8	Endrin	12	P
33213-65-9	Endosulfan II	9.8	P
72-54-8	4,4'-DDD	22	P
1031-07-8	Endosulfan sulfate	4.9	U
50-29-3	4,4'-DDT	38	P
72-43-5	Methoxychlor	51	
53494-70-5	Endrin ketone	4.9	U
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	7.6	P
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	49	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	49	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0036

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041095

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 27 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	9.7	P
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0037

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041096

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 26 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	5.1	P
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0038

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041097

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 60 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.3	U
319-85-7	beta-BHC	4.3	U
319-86-8	delta-BHC	4.3	U
58-89-9	gamma-BHC (Lindane)	4.3	U
76-44-8	Heptachlor	4.3	U
309-00-2	Aldrin	4.3	U
1024-57-3	Heptachlor epoxide	6.0	P
959-98-8	Endosulfan I	4.3	U
60-57-1	Dieldrin	19	P
72-55-9	4,4'-DDE	20	P
72-20-8	Endrin	8.3	U
33213-65-9	Endosulfan II	8.3	U
72-54-8	4,4'-DDD	19	P
1031-07-8	Endosulfan sulfate	8.3	U
50-29-3	4,4'-DDT	74	P
72-43-5	Methoxychlor	43	U
53494-70-5	Endrin ketone	8.3	U
7421-93-4	Endrin aldehyde	8.3	U
5103-71-9	alpha-Chlordane	4.3	U
5103-74-2	gamma-Chlordane	21	P
8001-35-2	Toxaphene	430	U
12674-11-2	Aroclor-1016	83	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	83	U
53469-21-9	Aroclor-1242	83	U
12672-29-6	Aroclor-1248	83	U
11097-69-1	Aroclor-1254	83	U
11096-82-5	Aroclor-1260	83	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0039

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 04041098

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 63 decanted: (Y/N) N Date Received: 04/01/04

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.6	U
319-85-7	beta-BHC	4.6	U
319-86-8	delta-BHC	4.6	U
58-89-9	gamma-BHC (Lindane)	4.6	U
76-44-8	Heptachlor	4.6	U
309-00-2	Aldrin	4.6	U
1024-57-3	Heptachlor epoxide	7.7	P
959-98-8	Endosulfan I	4.6	U
60-57-1	Dieldrin	12	P
72-55-9	4,4'-DDE	21	P
72-20-8	Endrin	11	P
33213-65-9	Endosulfan II	8.9	U
72-54-8	4,4'-DDD	8.9	U
1031-07-8	Endosulfan sulfate	8.9	U
50-29-3	4,4'-DDT	8.9	U
72-43-5	Methoxychlor	46	U
53494-70-5	Endrin ketone	8.9	U
7421-93-4	Endrin aldehyde	8.9	U
5103-71-9	alpha-Chlordane	4.6	U
5103-74-2	gamma-Chlordane	37	P
8001-35-2	Toxaphene	460	U
12674-11-2	Aroclor-1016	89	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	89	U
11096-82-5	Aroclor-1260	89	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK93

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 0407PSB1

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 04/07/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK95

Lab Name: ENVIROSYSTEMS Contract: 68W03019

Lab Code: ENVSYS Case No.: 32724 SAS No.: SDG No.: E0020

Matrix: (soil/water) SOIL Lab Sample ID: 0408PSB1

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 04/08/04

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/22/04

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0020 CERCLIS No: ILD980497721

Case No: 32724 Site Name Location: CARLSTROM LANDFILL

Contractor or EPA Lab: ENDECO SYSTEMS Data User: IEPA

No. of Samples: 19 Date Sampled or Date Received: 5-3-04

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ____ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 19 No. of samples received: 19

Received by: Ena M. Dixon / ESAT Date: 5-3-04

Received by LSSS: Ena M. Dixon / ESAT Date: 5-3-04

Review started: May 14, 2004 Reviewer Signature: Allison C Hawe

Total time spent on review: 25 hrs Date review completed: May 20, 2004

Copied by: Ena M. Dixon / ESAT Date: 5-26-04

Mailed to user by: Ena M. Dixon / ESAT Date: 5-26-04

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: _____

DATE: May 21, 2004

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Carlstrom Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
32724	Chemtech	19	ME0020	Soil

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Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

MAY 2 6 2004

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

MAY 2 1 2004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: May 20, 2004

SUBJECT: Review of Data
Received for Review on April 22, 2004

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for this case. We have also reviewed the CADRE generated validation files.

SITE NAME: Carlstrom LF

CI NUMBER: 32724 SDG NUMBER: ME0020

Number and Type of Samples: 19 soils

Sample Numbers: ME0020-33, 35-39

Laboratory: Chemtech Hrs. for Review: 18

Following are our findings:

CC ɔward Pham
Region 5 TPO
Mail Code: SM-5J

Case Number : 32724
Site Name: Carlstrom LF

SDG Number: ME0020
Laboratory: Chemtech

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Niniteen soil samples numbered ME0020-33 and ME035-39 were collected on March 30 and 31, 2004. The lab received the samples on April 1, 2004 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM05.2 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

The reviewer corrected results on form 1.

Reviewed By: J. Ganz
Date: May 20, 2004

Case Number : 32724
Site Name: Carlstrom LF

SDG Number: ME0020
Laboratory: Chemtech

1 **OLDING TIME:**

No defects were found.

2. **CALIBRATIONS:**

No defects were found.

3. **BLANKS:**

The following inorganic samples are associated with a CCB concentration which is less than or equal to the CRQL. Sample result is also less than or equal to the CRQL. Hits are qualified "U". Sample result is raised to the CRQL.

Silver
ME0020, ME0021, ME0023, ME0024, ME0025, ME0026, ME0027
ME0028, ME0029, ME0031, ME0035, ME0036, ME0037, ME0038
ME0039

Vanadium
ME0020, ME0021, ME0025, ME0027, ME0029, ME0038, ME0039

The following inorganic samples are associated with a CCB concentration which is less than or equal to the CRQL. Sample result is greater than the CRQL. Hits are qualified "J+".

Silver
ME0030, ME0032, ME0033

The following inorganic samples are associated with an ICB analyte with negative concentration whose absolute value is greater than or equal to the method detection limit (MDL) but less than or equal to the CRQL. Sample result is also less than or equal to the CRQL. Hits are qualified "U". Sample result is raised to the CRQL.

Mercury
ME0023, ME0024, ME0025, ME0026, ME0031, ME0035, ME0038

Cyanide
ME0038

The following inorganic samples are associated with a CCB analyte with negative concentration whose absolute value is greater than or equal to the method detection limit (MDL) but less than or equal to the CRQL. Sample result is greater than the CRQL. Hits are qualified "J-".

Reviewed By: J. Ganz
Date: May 20, 2004

Mercury
ME0021, ME0027, ME0028, ME0029, ME0033, ME0039

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is outside primary low criteria. Post-digest spike sample was either not required or it was required but not analyzed. Hits are qualified "J-" and non-detects are qualified "UJ".

Silver
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0029, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

No defects were found for the laboratory control standard.

5. LABORATORY AND FIELD DUPLICATE

No defects were found.

6. ICP ANALYSIS

The following results are associated with an interference check A standard (ICSA) that exhibited false positives for the trace analytes. The sample contains aluminum, calcium, iron, or magnesium at a level comparable to the ICSA. The sample also contains the trace analyte at a level comparable to the ICSA false positive. Hits are qualified "J+".

Beryllium
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

Cobalt
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

The following results are associated with an interference check A standard (ICSA) that exhibited false negatives for the trace analytes. The sample contains aluminum, calcium, iron, or magnesium at a level comparable to the ICSA. The sample trace analyte result is less than the MDL. Non-detects are qualified "UJ".

Reviewed By: J. Ganz
Date: May 20, 2004

Selenium
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

Thallium
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

DC-3 The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control. The detected serial dilution result is less than the initial sample result. Hits are qualified "J" and non-detects are qualified "UJ".

Copper
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0029, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

Potassium
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0029, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

7. GFAA ANALYSIS

No GFAA analyses were performed for this case.

8. SAMPLE RESULTS

DC-5 The following inorganic samples have analyte concentrations greater than the MDL but reported below the quantitation limit (CRQL). These results are qualified"J".

Antimony
ME0020, ME0021, ME0022, ME0025, ME0026, ME0028, ME0029
ME0031, ME0033, ME0035, ME0037, ME0038, ME0039

Barium
ME0029

Beryllium
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0029, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

Reviewed By: J. Ganz
Date: May 20, 2004

Case Number : 32724
Site Name: Carlstrom LF

SDG Number: ME0020
Laboratory: Chemtech

Cadmium
ME0025, ME0027, ME0028, ME0031, ME0036, ME0037

Cobalt
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0026
ME0027, ME0028, ME0029, ME0030, ME0031, ME0032, ME0033
ME0035, ME0036, ME0037, ME0038, ME0039

Potassium
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0027
ME0028, ME0029, ME0030, ME0031, ME0033, ME0035, ME0036
ME0037, ME0038, ME0039

Sodium
ME0020, ME0021, ME0022, ME0023, ME0024, ME0025, ME0027
ME0028, ME0029, ME0030, ME0031, ME0033, ME0035, ME0038
ME0039

All data, except those qualified above, are acceptable.

Reviewed By: J. Ganz
Date: May 20, 2004

ILM05.2 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 32724 | SDG : ME0020
Site : CARLSTROM LANDFILL | Number of Soil Samples : 19
Lab. : CHEM | Number of Water Samples : 0
Reviewer : J. GANZ
Date : MAY 20, 2004

Sample Number :	ME0020		ME0021		ME0022		ME0023		ME0024	
Sampling Location :	X207		X208		X209		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/31/2004		3/31/2004	
Time Sampled :	13:00		13:00		15:40		07:50		08:10	
%Solids :	53.8		72.6		57.2		60.4		80.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3750		3700		7590		7200		4590	
ANTIMONY	2.7	J	1.8	J	4.6	J	19.3	U	15.0	U
ARSENIC	14.5		8.9		25.6		11.3		7.1	
BARIUM	139		100		307		72.4		57.9	
BERYLLIUM	0.52	J+	0.61	J+	0.73	J+	0.57	J+	0.40	J+
CADMIUM	6.1		7.0		13.0		3.1		1.3	U
CALCIUM	85900		95300		41500		52600		88600	
CHROMIUM	72.5		78.5		212		41.5		8.1	
COBALT	6.0	J+	5.0	J+	10.5	J+	10.0	J+	6.1	J+
COPPER	123	J	82.3	J	378	J	47.5	J	15.2	J
IRON	20700		17900		30000		18000		12800	
LEAD	267		176		521		71.2		26.0	
MAGNESIUM	49000		56600		25000		30400		51300	
MANGANESE	374		368		359		452		493	
MERCURY	4.8		0.57	J-	5.1		0.17	U	0.12	U
NICKEL	24.9		25.1		60.9		29.2		12.6	
POTASSIUM	679	J	630	J	1250	J	887	J	870	J
SELENIUM	12.8	UJ	9.5	UJ	12.1	UJ	11.3	UJ	8.8	UJ
SILVER	3.6	UJ	2.7	UJ	7.8	J-	3.2	UJ	2.5	UJ
SODIUM	145	J	482	J	987	J	200	J	122	J
THALLIUM	9.1	UJ	6.8	UJ	8.7	UJ	8.0	UJ	6.3	UJ
VANADIUM	18.2	U	13.6	U	22.3		19.9		13.3	
ZINC	557		409		1210		436		60.7	
CYANIDE	0.93	U	0.69	U	12.0		0.83	U	0.62	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : ME0020
Site : CARLSTROM LANDFILL
Lab. : CHEM
Reviewer : J. GANZ
: MAY 20, 2004

Sample Number :	ME0025		ME0026		ME0027		ME0028		ME0029	
Sampling Location :	X105		X106		X201		X107		X108	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	08:50		09:15		10:10		10:15		19:25	
%Solids :	72.3		69.3		65.4		65.2		59.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3960		9560		3960		5700		3970	
ANTIMONY	2.9	J	2.6	J	18.2	UJ	2.3	J	2.7	J
ARSENIC	6.0		14.7		6.2		10.5		7.6	
BARIUM	69.5		253		181		90.7		65.4	J
BERYLLIUM	0.58	J+	1.3	J+	0.41	J+	0.55	J+	0.93	J
CADMIUM	0.53	J	2.3		1.1	J	1.0	J	2.8	
CALCIUM	54700		50800		87700		62400		26500	
CHROMIUM	10.2		15.1		37.3		19.1		30.3	
COBALT	5.2	J+	11.0	J+	7.6	J+	10.9	J+	4.4	J
COPPER	19.3	J	505	J	62.6		35.9	J	137.8	J
IRON	11000		31200		14700		18700		15300	
LEAD	109		1130		143		27.5		62.6	
MAGNESIUM	28900		27900		42700		31500		14200	
MANGANESE	369		901		588		673		144	
MERCURY	0.14	U	0.13	U	0.22	J-	0.16	J-	0.39	J-
NICKEL	12.2		267		19.0		24.7		18.9	
ASSIUM	1010	J	2160	J	808	J	986	J	684	J
SELENIUM	9.7	UJ	9.9	UJ	10.6	UJ	10.7	UJ	11.6	UJ
SILVER	2.8	UJ	2.8	UJ	3.0	UJ	3.1	UJ	3.4	UJ
SODIUM	152	J	410	UJ	461	J	225	J	262	J
THALLIUM	6.9	UJ	7.1	UJ	7.6	UJ	7.7	UJ	8.4	U
VANADIUM	13.8	U	27.3		15.1	U	18.1		16.8	U
ZINC	118		633		320		123		246	
CYANIDE	0.69	U	0.72	U	0.76	U	0.77	U	0.84	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : ME0020
Site : CARLSTROM LANDFILL
Lab. : CHEM
Reviewer : J. GANZ
Date : MAY 20, 2004

Sample Number :	ME0030		ME0031		ME0032		ME0033		ME0035	
Sampling Location :	X109		X203		X202		X110		X204	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004		3/31/2004	
Time Sampled :	10:35		11:50		11:35		11:20		12:40	
%Solids :	81.4		67.5		75.0		77.3		65.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4410		6270		5880		6140		6780	
ANTIMONY	14.7	UJ	1.5	J	15.5	UJ	1.9	J	8.6	J
ARSENIC	6.4		9.5		5.9		10.5		63.1	
BARIUM	109		109		202		143		90.6	
BERYLLIUM	0.40	J+	0.61	J+	0.55	J+	0.53	J+	1.1	J+
CADMIUM	535.4		0.27	J	8.6		4.2		1.7	
CALCIUM	45500		48500		61000		53000		38900	
CHROMIUM	12.3		21.0		17.7		33.6		22.7	
COBALT	6.8	J+	7.0	J+	8.2	J+	9.3	J+	9.4	J+
COPPER	31.1	J	41.7	J	51.5	J	45.6	J	87.3	J
IRON	13800		22300		17200		13800		35000	
LEAD	80.1		63.6		131		61.8		204	
MAGNESIUM	23900		24700		26500		33000		18200	
MANGANESE	402		260		587		900		502	
MERCURY	0.55		0.14	U	0.85		0.21	J-	0.15	U
NICKEL	22.9		21.6		29.0		22.5		26.8	
POTASSIUM	979	J	1060	J	2450	J	771	J	1300	J
SELENIUM	6.6	UJ	10.3	UJ	9.1	UJ	6.6	UJ	10.7	UJ
SILVER	3.0	J+J-	2.9	UJ	3.0	J+J-	2.6	J+J-	3.1	UJ
SODIUM	131		512	J	3040		391	J	288	J
THALLIUM	6.1	UJ	7.3	UJ	6.5	UJ	6.3	UJ	7.6	UJ
VANADIUM	12.8		24.9		14.8		18.4		22.4	
ZINC	289		140		421		189		405	
CYANIDE	1.5		0.74	U	0.67	U	0.65	U	0.76	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : ME0020
Site : CARLSTROM LANDFILL
Lab. : CHEM
Reviewer : J. GANZ
'e : MAY 20, 2004

Sample Number :	ME0036		ME0037		ME0038		ME0039			
Sampling Location :	X102		X101		X205		X206			
Matrix :	Soil		Soil		Soil		Soil			
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled :	3/31/2004		3/31/2004		3/31/2004		3/31/2004			
Time Sampled :	14:15		14:15		13:55		14:45			
%Solids :	73.3		72.2		52.0		57.6			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4710		4960		6250		4220			
ANTIMONY	16.4	U	1.5	J	8.0	J	2.1	J		
ARSENIC	6.9		7.7		16.4		6.3			
BARIUM	57.0		68.2		172		109			
BERYLLIUM	0.59	J+	0.61	J+	0.87	J+	0.55	J+		
CADMIUM	0.65	J	0.62	J	2.7		3.2			
CALCIUM	50800		52900		53300		75300			
CHROMIUM	10.7		11.4		21.3		44.0			
COBALT	7.4	J+	7.6	J+	9.3	J+	7.0	J+		
COPPER	22.0	J	20.7	J	137	J	54.5	J		
IRON	14100		14600		20800		15500			
LEAD	51.6		60.8		167		122			
MAGNESIUM	29500		31100		27700		36200			
MANGANESE	396		393		663		400			
MERCURY	0.12	U	0.13	U	0.19	U	0.21	J-		
NICKEL	15.6		15.8		24.9		23.3			
TASSIUM	1240	J	1330	J	1110	J	669	J		
SELENIUM	9.5	UJ	9.7	UJ	13.2	UJ	12.0	UJ		
SILVER	2.7	UJ	2.8	UJ	3.8	UJ	3.4	UJ		
SODIUM	1360	U	1390	U	434	J	396	J		
THALLIUM	6.8	UJ	6.9	UJ	9.4	UJ	8.6	UJ		
VANADIUM	16.2		16.5		18.9	U	17.2	U		
ZINC	159		164		708		293			
CYANIDE	0.68	U	0.69	U	0.96	U	0.87	U		

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 32724 SITE: Carlstrom LF MATRIX: Soil WATER SAMPLE SPK: _____

DATA SET: ME0020 LAB: Chemtech CONC: low WATER SAMPLE DUP: _____

LAB QC # _____ REVIEWED BY: J Ganz SOIL SAMPLE SPK: _____

DATE: April 26, 2004 SOIL SAMPLE DUP: _____

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD		
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS WR	SOIL SPIKE WR	SOIL DUP RPD	LCS AQ	LCS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP RPD	AQ SPIKE WR	BLANK	DUP RPD	BLANK	DUP RPD	GFAA DUP	GFAA ANALYT SPIKE
ALUMINUM				1.5																	
ANTIMONY																					
ARSENIC																					
BARIUM																					
BERYLLIUM																					
CADMIUM																					
CALCIUM				3.7																	
CHROMIUM																					
COBALT																					
COPPER				-4.1									13								
IRON				6.6																	
LEAD				2.1																	
MAGNESIUM				2.7																	
MANGANESE																					
MERCURY				~~-0.2~~	0.154																
NICKEL																					
POTASSIUM													17								
SELENIUM																					
SILVER				3.8				54													
SODIUM																					
THALLIUM																					
TIN																					
VANADIUM				3.9																	
ZINC																					
CYANIDE				-1.7																	

~~[illegible]~~ -6; 31, 5, 8 V: 20, 1, 5, 7, 9; 30, 9
(T): 9; 39; 21; 33

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32724
DAS No:	
SDG No:	ME0020

L

Date Shipped:	3/31/2004
Carrier Name:	UPS
Airbill:	1Z6215892210024802
Shipped to:	ChemTech Consulting Group (CHEM) 110 Route 4 Englewood NJ 07631 (201) 568-7400

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gerald D Willman	3/31/04 1600	Sunny Patel	4/1/04 10:18
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No:	68W02068
Unit Price:	$84.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0020	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278067 (Ice Only) (1)	X207	S: 3/30/2004 13:00	E0020	
ME0021	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278070 (Ice Only) (1)	X208	S: 3/30/2004 13:00	E0021	
ME0022	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278073 (Ice Only) (1)	X209	S: 3/30/2004 15:40	E0022	
ME0023	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278083 (Ice Only) (1)	X103	S: 3/31/2004 7:50	E0023	
ME0024	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278087 (Ice Only) (1)	X104	S: 3/31/2004 8:10	E0024	
ME0025	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278091 (Ice Only) (1)	X105	S: 3/31/2004 8:50	E0025	
ME0026	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278095 (Ice Only) (1)	X106	S: 3/31/2004 9:15	E0026	
ME0027	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278105 (Ice Only) (1)	X201	S: 3/31/2004 10:10	E0027	
ME0028	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278109 (Ice Only) (1)	X107	S: 3/31/2004 10:15	E0028	
ME0029	Soil/Sediment/ Jerry Willman	L/G	HCI (21)	5-278113 (Ice Only) (1)	X108	S: 3/31/2004 19:25	E0029	

002

Shipment for Case Complete? yes	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°c	Chain of Custody Seal Number: 27981
Analysis Key: HCI = Hg,CN,ICP Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? yes / Shipment Iced? yes

TR Number: 5-314975591-033104-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 32724
DAS No:
SDG No: ME0020

L

Date Shipped: 3/31/2004	**Chain of Custody Record**	Sampler Signature: Jerry Willman	**For Lab Use Only**
Carrier Name: UPS	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: 68W02068
Airbill: 1Z6215892210024802	1 Jerry Willman 3/31/04 1600	Sunny Patel 4/1/04 10:18	Unit Price: $84.00
Shipped to: ChemTech Consulting Group (CHEM) 110 Route 4 Englewood NJ 07631 (201) 568-7400	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0030	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278117 (Ice Only) (1)	X109	S: 3/31/2004	10:35	E0030	
ME0031	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278121 (Ice Only) (1)	X203	S: 3/31/2004	11:50	E0031	
ME0032	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278125 (Ice Only) (1)	X202	S: 3/31/2004	11:35	E0032	
ME0033	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278129 (Ice Only) (1)	X110	S: 3/31/2004	11:20	E0033	
ME0035	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278133 (Ice Only) (1)	X204	S: 3/31/2004	12:40	E0035	
ME0036	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278137 (Ice Only) (1)	X102	S: 3/31/2004	14:15	E0036	
ME0037	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278141 (Ice Only) (1)	X101	S: 3/31/2004	14:15	E0037	
ME0038	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278145 (Ice Only) (1)	X205	S: 3/31/2004	13:55	E0038	
ME0039	Soil/Sediment/ Jerry Willman	L/G	HCl (21)	5-278149 (Ice Only) (1)	X206	S: 3/31/2004	14:45	E0039	

003

Shipment for Case Complete? Y/N Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): Jerry Willman	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 27981
Analysis Key: HCl = Hg,CN,ICP Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? yes Shipment Iced? yes

TR Number: 5-314975591-033104-0001

PR provides pre ry results. Requests for preliminary results will increase analytical costs.
Send Copy to: le Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

APR 2 2 2004

CHEMTECH

SDG NARRATIVE

USEPA
SDG # ME0020
CASE # 32724
CONTRACT # 68-W0-2068
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT #S1991

A. Number of Samples and Date of Receipt

19 Soil Samples were delivered to the laboratory intact on 04/01/04.

B. Parameters

Test requested for Total Metals and Cyanide.

C. Cooler Temp

Indicator Bottle: **Presence** Absence
Cooler Temp: 3°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue = 1. On TR they marked Case is Complete. But, they did not marked any QC Sample in Laboratory QC column. Lab is planing to choose Sample ME0029 as a QC for SDG = ME0020. This Sample is not a PE, rinsate or blank Sample. Is it Ok with the Region?

E. Corrective Action taken for above:

In accordance with previous direction from Region 5, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for QC, and proceed with the analysis of the samples. If the laboratory is not sure that the sample they selected is not a PE, blank, or rinsate sample, they will contact SMO and wait for a resolution from the Region.
SMO will report that BONNER selected sample ME0029 as QC for SDG ME0020.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.2

G. Calculation:

Conversion of results from mg/L to mg/kg (Dry Weight Basis):

Mg/Kg = (Result in mg/L) X 1000 X 100 / % Solid X Fraction of Sample Amount Taken in Prep.

CHEMTECH

G. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did met requirements except for the Silver. Duplicate sample did met requirements except for Calcium, Magnesium and Zinc. Serial Dilution did met requirements except for Copper and Potassium.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature _____ Name: Parveen Hasan

Date 04/16/04 Title: QA/QC

USEPA - CLP

COVER PAGE

APR 2 2 2004

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

SOW No.: ILM05.2

EPA SAMPLE NO.	Lab Sample ID.
ME0020	S1991-01
ME0021	S1991-02
ME0022	S1991-03
ME0023	S1991-04
ME0024	S1991-05
ME0025	S1991-06
ME0026	S1991-07
ME0027	S1991-08
ME0028	S1991-09
ME0029	S1991-10
ME0029D	S1991-11
ME0029S	S1991-12
ME0030	S1991-13
ME0031	S1991-14
ME0032	S1991-15
ME0033	S1991-16
ME0035	S1991-17
ME0036	S1991-18
ME0037	S1991-19
ME0038	S1991-20
ME0039	S1991-21

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	_____
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	_____
If yes-were raw data generated before application of background corrections?	(Yes/No)	NO	_____

Comments:

The "E" qualifiers on Form I and VIII for Copper and Potassium indicate chemical or physical interference effects, which were suspected during those elements' analyses only.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: for Name: MILDRED V. REYES
Date: 4/21/04 Title: QA/QC DIRECTOR

USEPA - CLP

X207

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0030

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 30724 NRAS No.: SDG No.: ME0030

Matrix: (soil/water) SOIL Lab Sample ID: S1991-01

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 53.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3750			P	
7440-36-0	Antimony	2.7	J		P	
7440-38-2	Arsenic	14.5			P	
7440-39-3	Barium	139			P	
7440-41-7	Beryllium	0.52	J		P	
7440-43-9	Cadmium	6.1			P	
7440-70-2	Calcium	85900		*	P	
7440-47-3	Chromium	72.5			P	
7440-48-4	Cobalt	6.0	J		P	
7440-50-8	Copper	123		E	P	
7439-89-6	Iron	20700			P	
7439-92-1	Lead	267			P	
7439-95-4	Magnesium	49000		*	P	
7439-96-5	Manganese	374			P	
7439-97-6	Mercury	4.8			CV	
7440-02-0	Nickel	24.9			P	
7440-09-7	Potassium	679	J	E	P	
7782-49-2	Selenium	12.8	U		P	
7440-22-4	Silver	3.6 ~~2.3~~	~~J~~ U	N	P	JS
7440-23-5	Sodium	345	J		P	
7440-28-0	Thallium	9.1	U		P	
7440-62-2	Vanadium	18.2 ~~11.5~~	~~J~~ U		P	JS
7440-66-6	Zinc	557		*	P	
57-12-5	Cyanide	0.93 ~~1.9~~	U		AS	JS
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

007

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X208
EPA SAMPLE NO.

ME0021

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-02

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3700			P	
7440-36-0	Antimony	1.8	J		P	
7440-38-2	Arsenic	8.9			P	
7440-39-3	Barium	100			P	
7440-41-7	Beryllium	0.61	J		P	
7440-43-9	Cadmium	7.0			P	
7440-70-2	Calcium	95300		*	P	
7440-47-3	Chromium	79.5			P	
7440-48-4	Cobalt	5.0	J		P	
7440-50-8	Copper	82.3		E	P	
7439-89-6	Iron	17900			P	
7439-92-1	Lead	176			P	
7439-95-4	Magnesium	56600		*	P	
7439-96-5	Manganese	368			P	
7439-97-6	Mercury	0.57			CV	
7440-02-0	Nickel	25.1			P	
7440-09-7	Potassium	630	J	E	P	
7782-49-2	Selenium	9.5	U		P	
7440-22-4	Silver	2.7 ~~2.0~~	~~J~~ U	N	P	JG
7440-23-5	Sodium	482	J		P	
7440-28-0	Thallium	6.8	U		P	
7440-62-2	Vanadium	13.6 ~~13.2~~	~~J~~ U		P	JG
7440-66-6	Zinc	409		*	P	
57-12-5	Cyanide	0.69 ~~1.1~~	U		AS	JG
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X209
EPA SAMPLE NO.

ME0022

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-03

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 57.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7590			P
7440-36-0	Antimony	4.8	J		P
7440-38-2	Arsenic	25.6			P
7440-39-3	Barium	307			P
7440-41-7	Beryllium	0.73	J		P
7440-43-9	Cadmium	13.0			P
7440-70-2	Calcium	41500		*	P
7440-47-3	Chromium	212			P
7440-48-4	Cobalt	10.5	J		P
7440-50-8	Copper	378		E	P
7439-89-6	Iron	30000			P
7439-92-1	Lead	521			P
7439-95-4	Magnesium	25000		*	P
7439-96-5	Manganese	359			P
7439-97-6	Mercury	5.1			CV
7440-02-0	Nickel	60.9			P
7440-09-7	Potassium	1250	J	E	P
7782-49-2	Selenium	12.1	U		P
7440-22-4	Silver	7.8		N	P
7440-23-5	Sodium	987	J		P
7440-28-0	Thallium	8.7	U		P
7440-62-2	Vanadium	22.3			P
7440-66-6	Zinc	1210		*	P
57-12-5	Cyanide	12.0			AS
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X103
EPA SAMPLE NO.

ME0023

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-04

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 60.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7200			P	
7440-36-0	Antimony	19.3	U		P	
7440-38-2	Arsenic	11.3			P	
7440-39-3	Barium	72.4			P	
7440-41-7	Beryllium	0.57	J		P	
7440-43-9	Cadmium	3.1			P	
7440-70-2	Calcium	52600		*	P	
7440-47-3	Chromium	41.5			P	
7440-48-4	Cobalt	10.0	J		P	
7440-50-8	Copper	47.5		E	P	
7439-89-6	Iron	18000			P	
7439-92-1	Lead	71.2			P	
7439-95-4	Magnesium	30400		*	P	
7439-96-5	Manganese	452			P	
7439-97-6	Mercury	0.17 ~~0.07~~	~~J~~	U	CV	gb
7440-02-0	Nickel	29.2			P	
7440-09-7	Potassium	887	J	E	P	
7782-49-2	Selenium	11.3	U		P	
7440-22-4	Silver	3.2 ~~2.7~~	~~U~~	U N	P	gb
7440-23-5	Sodium	200	J		P	
7440-28-0	Thallium	8.0	U		P	
7440-62-2	Vanadium	19.9			P	
7440-66-6	Zinc	436		*	P	
57-12-5	Cyanide	0.83 ~~1.7~~	U		AS	gb
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

010

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X104
EPA SAMPLE NO.

ME0024

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-05

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4590			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	57.9			P
7440-41-7	Beryllium	0.40	J		P
7440-43-9	Cadmium	1.3	U		P
7440-70-2	Calcium	88600		*	P
7440-47-3	Chromium	8.1			P
7440-48-4	Cobalt	6.1	J		P
7440-50-8	Copper	15.2		E	P
7439-89-6	Iron	12800			P
7439-92-1	Lead	26.0			P
7439-95-4	Magnesium	51300		*	P
7439-96-5	Manganese	493			P
7439-97-6	Mercury	0.12 ~~0.05~~	~~J~~ U		CV
7440-02-0	Nickel	12.6			P
7440-09-7	Potassium	870	J	E	P
7782-49-2	Selenium	8.8	U		P
7440-22-4	Silver	2.5 ~~0.26~~	~~J~~ U	N	P
7440-23-5	Sodium	122	J		P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	13.3			P
7440-66-6	Zinc	60.7		*	P
57-12-5	Cyanide	0.62 ~~1.3~~	U		AS
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

011

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X105
EPA SAMPLE NO.

ME0025

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-06

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 72.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3960			P	
7440-36-0	Antimony	2.9	J		P	
7440-38-2	Arsenic	6.0			P	
7440-39-3	Barium	69.5			P	
7440-41-7	Beryllium	0.58	J		P	
7440-43-9	Cadmium	0.53	J		P	
7440-70-2	Calcium	54700		*	P	
7440-47-3	Chromium	8.2			P	
7440-48-4	Cobalt	5.2	J		P	
7440-50-8	Copper	19.3		E	P	
7439-89-6	Iron	11000			P	
7439-92-1	Lead	109			P	
7439-95-4	Magnesium	28900		*	P	
7439-96-5	Manganese	369			P	
7439-97-6	Mercury	0.14 ~~0.11~~	~~J~~	U	CV	
7440-02-0	Nickel	12.2			P	
7440-09-7	Potassium	1010	J	E	P	
7782-49-2	Selenium	9.7	U		P	
7440-22-4	Silver	2.8 ~~0.71~~	~~J~~	U N	P	
7440-23-5	Sodium	162	J		P	
7440-28-0	Thallium	6.9	U		P	
7440-62-2	Vanadium	13.8 ~~11.6~~	~~J~~	U	P	
7440-66-6	Zinc	118		*	P	
57-12-5	Cyanide	0.69 ~~1.1~~	U		AS	
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

X106

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0026

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water SOIL Lab Sample ID: S1991-07

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 69.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9560			P	
7440-36-0	Antimony	2.5	J		P	
7440-38-2	Arsenic	14.7			P	
7440-39-3	Barium	253			P	
7440-41-7	Beryllium	1.3	J		P	
7440-43-9	Cadmium	2.3			P	
7440-70-2	Calcium	50800		*	P	
7440-47-3	Chromium	18.9			P	
7440-48-4	Cobalt	11.0	J		P	
7440-50-8	Copper	50.5		E	P	
7439-89-6	Iron	31200			P	
7439-92-1	Lead	1130			P	
7439-95-4	Magnesium	27900		*	P	
7439-96-5	Manganese	901			P	
7439-97-6	Mercury	0.13 ~~0.08~~	~~J~~	U	CV	
7440-02-0	Nickel	26.7			P	
7440-09-7	Potassium	2160		E	P	
7782-49-2	Selenium	9.9	U		P	
7440-22-4	Silver	2.8 ~~0.78~~	~~J~~	U N	P	
7440-23-5	Sodium	1410	U		P	
7440-28-0	Thallium	7.1	U		P	
7440-62-2	Vanadium	27.3			P	
7440-66-6	Zinc	633		*	P	
57-12-5	Cyanide	0.72 ~~1.4~~	U		AS	
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

x 201

EPA SAMPLE NO.

ME0027

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-08

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 65.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3960			P	
7440-36-0	Antimony	18.2	U		P	
7440-38-2	Arsenic	6.2			P	
7440-39-3	Barium	161			P	
7440-41-7	Beryllium	0.41	J		P	
7440-43-9	Cadmium	1.4	J		P	
7440-70-2	Calcium	87700		*	P	
7440-47-3	Chromium	37.3			P	
7440-48-4	Cobalt	7.6	J		P	
7440-50-8	Copper	52.6		E	P	
7439-89-6	Iron	14700			P	
7439-92-1	Lead	143			P	
7439-95-4	Magnesium	42700		*	P	
7439-96-5	Manganese	588			P	
7439-97-6	Mercury	0.22			CV	
7440-02-0	Nickel	19.0			P	
7440-09-7	Potassium	808	J	E	P	
7782-49-2	Selenium	10.6	U		P	
7440-22-4	Silver	3.0 ~~1.0~~	~~J~~ U	N	P	
7440-23-5	Sodium	461	J		P	
7440-28-0	Thallium	7.6	U		P	
7440-62-2	Vanadium	15.1 ~~14.8~~	~~J~~ U		P	
7440-66-6	Zinc	320		*	P	
57-12-5	Cyanide	0.76 ~~1.5~~	U		AS	
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

014

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X107
EPA SAMPLE NO.

ME0028

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-09

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 65.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5700			P
7440-36-0	Antimony	2.3	J		P
7440-38-2	Arsenic	10.5			P
7440-39-3	Barium	90.7			P
7440-41-7	Beryllium	0.55	J		P
7440-43-9	Cadmium	1.1	J		P
7440-70-2	Calcium	62400		*	P
7440-47-3	Chromium	19.1			P
7440-48-4	Cobalt	10.9	J		P
7440-50-8	Copper	35.9		E	P
7439-89-6	Iron	18700			P
7439-92-1	Lead	37.5			P
7439-95-4	Magnesium	31500		*	P
7439-96-5	Manganese	673			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	24.7			P
7440-09-7	Potassium	986	J	E	P
7782-49-2	Selenium	10.7	U		P
7440-22-4	Silver	3.1 ~~[illegible]~~	~~U~~ U	N	P
7440-23-5	Sodium	225	J		P
7440-28-0	Thallium	7.7	U		P
7440-62-2	Vanadium	18.1			P
7440-66-6	Zinc	123		*	P
57-12-5	Cyanide	0.77 ~~[illegible]~~	U		AS
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

015

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X108
EPA SAMPLE NO.

ME0029

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-10

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 59.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3970			P	
7440-36-0	Antimony	2.7	J		P	
7440-38-2	Arsenic	7.6			P	
7440-39-3	Barium	65.4	J		P	
7440-41-7	Beryllium	0.93	J		P	
7440-43-9	Cadmium	2.8			P	
7440-70-2	Calcium	26500		*	P	
7440-47-3	Chromium	30.3			P	
7440-48-4	Cobalt	4.4	J		P	
7440-50-8	Copper	37.8		E	P	
7439-89-6	Iron	15300			P	
7439-92-1	Lead	62.6			P	
7439-95-4	Magnesium	14200		*	P	
7439-96-5	Manganese	144			P	
7439-97-6	Mercury	0.39			CV	
7440-02-0	Nickel	16.9			P	
7440-09-7	Potassium	684	J	E	P	
7782-49-2	Selenium	11.8	U		P	
7440-22-4	Silver	3.4 ~~[illegible]~~	U	N	P	
7440-23-5	Sodium	262	J		P	
7440-28-0	Thallium	8.4	U		P	
7440-62-2	Vanadium	16.8 ~~[illegible]~~	U		P	
7440-66-6	Zinc	246		*	P	
57-12-5	Cyanide	0.84 ~~[illegible]~~	U		AS	
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

016.

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X109
EPA SAMPLE NO.

ME0030

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0030

Matrix: (soil/water) SOIL Lab Sample ID: S1991-13

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 81.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4410			P
7440-36-0	Antimony	14.7	U		P
7440-38-2	Arsenic	6.4			P
7440-39-3	Barium	109			P
7440-41-7	Beryllium	0.40	J		P
7440-43-9	Cadmium	5.4			P
7440-70-2	Calcium	45500		*	P
7440-47-3	Chromium	42.3			P
7440-48-4	Cobalt	6.8	J		P
7440-50-8	Copper	51.1		E	P
7439-89-6	Iron	13800			P
7439-92-1	Lead	80.1			P
7439-95-4	Magnesium	23900		*	P
7439-96-5	Manganese	402			P
7439-97-6	Mercury	0.55			CV
7440-02-0	Nickel	22.9			P
7440-09-7	Potassium	979	J	E	P
7782-49-2	Selenium	8.6	U		P
7440-22-4	Silver	3.0		N	P
7440-23-5	Sodium	131	J		P
7440-28-0	Thallium	6.1	U		P
7440-62-2	Vanadium	12.8			P
7440-66-6	Zinc	289		*	P
57-12-5	Cyanide	1.5			AS
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X203
EPA SAMPLE NO.

ME0031

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water SOIL Lab Sample ID: S1991-14

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 67.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6270			P	
7440-36-0	Antimony	1.5	J		P	
7440-38-2	Arsenic	9.5			P	
7440-39-3	Barium	109			P	
7440-41-7	Beryllium	0.61	J		P	
7440-43-9	Cadmium	0.27	J		P	
7440-70-2	Calcium	48500		*	P	
7440-47-3	Chromium	21.0			P	
7440-48-4	Cobalt	7.0	J		P	
7440-50-8	Copper	41.7		E	P	
7439-89-6	Iron	22300			P	
7439-92-1	Lead	63.6			P	
7439-95-4	Magnesium	24700		*	P	
7439-96-5	Manganese	260			P	
7439-97-6	Mercury	0.14 ~~0.12~~	~~J~~ U		CV	JA
7440-02-0	Nickel	21.6			P	
7440-09-7	Potassium	1060	J	E	P	
7782-49-2	Selenium	10.3	U		P	
7440-22-4	Silver	2.9 ~~0.88~~	~~J~~ U	N	P	JA
7440-23-5	Sodium	512	U		P	
7440-28-0	Thallium	7.3	U		P	
7440-62-2	Vanadium	24.9			P	
7440-66-6	Zinc	140		*	P	
57-12-5	Cyanide	0.74 ~~1.3~~	U		AS	JA
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

018

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X202
EPA SAMPLE NO.

ME0032

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-15

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 75.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5880			P
7440-36-0	Antimony	15.5	U		P
7440-38-2	Arsenic	5.9			P
7440-39-3	Barium	202			P
7440-41-7	Beryllium	0.55	J		P
7440-43-9	Cadmium	8.6			P
7440-70-2	Calcium	61000		*	P
7440-47-3	Chromium	51.7			P
7440-48-4	Cobalt	8.2	J		P
7440-50-8	Copper	51.5		E	P
7439-89-6	Iron	17200			P
7439-92-1	Lead	131			P
7439-95-4	Magnesium	26500		*	P
7439-96-5	Manganese	587			P
7439-97-6	Mercury	0.65			CV
7440-02-0	Nickel	29.0			P
7440-09-7	Potassium	2450		E	P
7782-49-2	Selenium	9.1	U		P
7440-22-4	Silver	3.0		N	P
7440-23-5	Sodium	3040			P
7440-28-0	Thallium	6.5	U		P
7440-62-2	Vanadium	14.8			P
7440-66-6	Zinc	421		*	P
57-12-5	Cyanide	0.67 ~~1.5~~	U		AS jk
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X110
EPA SAMPLE NO.

ME0033

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-16

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 77.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6140			P
7440-36-0	Antimony	1.9	J		P
7440-38-2	Arsenic	10.5			P
7440-39-3	Barium	143			P
7440-41-7	Beryllium	0.53	J		P
7440-43-9	Cadmium	4.2			P
7440-70-2	Calcium	53000		*	P
7440-47-3	Chromium	33.6			P
7440-48-4	Cobalt	9.3	J		P
7440-50-8	Copper	43.6		E	P
7439-89-6	Iron	13800			P
7439-92-1	Lead	61.8			P
7439-95-4	Magnesium	33000		*	P
7439-96-5	Manganese	900			P
7439-97-6	Mercury	0.21			CV
7440-02-0	Nickel	22.5			P
7440-09-7	Potassium	771	J	E	P
7782-49-2	Selenium	8.8	U		P
7440-22-4	Silver	2.6		N	P
7440-23-5	Sodium	391	J		P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	18.4			P
7440-66-6	Zinc	189		*	P
57-12-5	Cyanide	0.65 ~~1.3~~	U		AS gk
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X204
EPA SAMPLE NO.

ME0035

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0000

Matrix: (soil/water) SOIL Lab Sample ID: S1991-17

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 65.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6780			P	
7440-36-0	Antimony	8.6	J		P	
7440-38-2	Arsenic	63.1			P	
7440-39-3	Barium	90.6			P	
7440-41-7	Beryllium	1.1	J		P	
7440-43-9	Cadmium	1.7			P	
7440-70-2	Calcium	38900		*	P	
7440-47-3	Chromium	22.7			P	
7440-48-4	Cobalt	9.4	J		P	
7440-50-8	Copper	87.3		E	P	
7439-89-6	Iron	35000			P	
7439-92-1	Lead	204			P	
7439-95-4	Magnesium	18200		*	P	
7439-96-5	Manganese	502			P	
7439-97-6	Mercury	0.15 ~~0.10~~	~~J~~ U		CV	gb
7440-02-0	Nickel	26.8			P	
7440-09-7	Potassium	1300	J	E	P	
7782-49-2	Selenium	10.7	U		P	
7440-22-4	Silver	3.1 ~~6.32~~	~~J~~ U	N	P	gb
7440-23-5	Sodium	288	J		P	
7440-28-0	Thallium	7.6	U		P	
7440-62-2	Vanadium	22.4			P	
7440-66-6	Zinc	405		*	P	
57-12-5	Cyanide	0.76 ~~1.5~~	U		AS	gb
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X102
EPA SAMPLE NO.

ME0036

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code. CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-18

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 73.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4710			P
7440-36-0	Antimony	16.4	U		P
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium	67.0			P
7440-41-7	Beryllium	0.59	J		P
7440-43-9	Cadmium	0.65	J		P
7440-70-2	Calcium	50800		*	P
7440-47-3	Chromium	10.7			P
7440-48-4	Cobalt	7.4	J		P
7440-50-8	Copper	22.0		E	P
7439-89-6	Iron	14100			P
7439-92-1	Lead	51.6			P
7439-95-4	Magnesium	29500		*	P
7439-96-5	Manganese	396			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	15.6			P
7440-09-7	Potassium	1240	J	E	P
7782-49-2	Selenium	9.5	U		P
7440-22-4	Silver	2.7 ~~0.50~~	~~J~~ U	N	P
7440-23-5	Sodium	1360	U		P
7440-28-0	Thallium	6.8	U		P
7440-62-2	Vanadium	16.2			P
7440-66-6	Zinc	159		*	P
57-12-5	Cyanide	0.68 ~~1.1~~	U		AS
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X101
EPA SAMPLE NO.

ME0037

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-19

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 72.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4960			P
7440-36-0	Antimony	1.5	J		P
7440-38-2	Arsenic	7.7			P
7440-39-3	Barium	68.2			P
7440-41-7	Beryllium	0.61	J		P
7440-43-9	Cadmium	0.62	J		P
7440-70-2	Calcium	52900		*	P
7440-47-3	Chromium	11.4			P
7440-48-4	Cobalt	7.6	J		P
7440-50-8	Copper	20.7		E	P
7439-89-6	Iron	14600			P
7439-92-1	Lead	50.8			P
7439-95-4	Magnesium	31100		*	P
7439-96-5	Manganese	393			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	15.8			P
7440-09-7	Potassium	1330	J	E	P
7782-49-2	Selenium	9.7	U		P
7440-22-4	Silver	2.8 ~~0.26~~	~~J~~ U	N	P
7440-23-5	Sodium	1390	U		P
7440-28-0	Thallium	6.9	U		P
7440-62-2	Vanadium	16.5			P
7440-66-6	Zinc	164		*	P
57-12-5	Cyanide	0.69 ~~1.1~~	U		AS
7439-98-7	Molybdenum				NR
7440-32-6	Titanium				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X205
EPA SAMPLE NO.

ME0038

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-20

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 52.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6250			P	
7440-36-0	Antimony	6.0	J		P	
7440-38-2	Arsenic	16.4			P	
7440-39-3	Barium	172			P	
7440-41-7	Beryllium	0.87	J		P	
7440-43-9	Cadmium	2.7			P	
7440-70-2	Calcium	53300		*	P	
7440-47-3	Chromium	21.3			P	
7440-48-4	Cobalt	9.3	J		P	
7440-50-8	Copper	137		E	P	
7439-89-6	Iron	20800			P	
7439-92-1	Lead	167			P	
7439-95-4	Magnesium	27700		*	P	
7439-96-5	Manganese	663			P	
7439-97-6	Mercury	0.19 ~~0.10~~	~~J~~	U	CV	JG
7440-02-0	Nickel	24.9			P	
7440-09-7	Potassium	1110	J	E	P	
7782-49-2	Selenium	13.2	U		P	
7440-22-4	Silver	3.8 ~~0.59~~	~~J~~	U N	P	JG
7440-23-5	Sodium	434	J		P	
7440-28-0	Thallium	9.4	U		P	
7440-62-2	Vanadium	18.9 ~~18.0~~	~~J~~	U	P	JG
7440-66-6	Zinc	708		*	P	
57-12-5	Cyanide	0.96 ~~0.31~~	~~J~~	U	AS	JG
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILMC5.2

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

X206
EPA SAMPLE NO.

ME0039

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2069

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Lab Sample ID: S1991-21

Level: (low/med) LOW Date Received: 04/01/2004

% Solids: 57.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4220			P	
7440-36-0	Antimony	2.1	J		P	
7440-38-2	Arsenic	6.3			P	
7440-39-3	Barium	109			P	
7440-41-7	Beryllium	0.55	J		P	
7440-43-9	Cadmium	3.2			P	
7440-70-2	Calcium	75300		*	P	
7440-47-3	Chromium	44.0			P	
7440-48-4	Cobalt	7.0	J		P	
7440-50-8	Copper	54.5		E	P	
7439-89-6	Iron	15500			P	
7439-92-1	Lead	122			P	
7439-95-4	Magnesium	36200		*	P	
7439-96-5	Manganese	400			P	
7439-97-6	Mercury	0.21			CV	
7440-02-0	Nickel	23.3			P	
7440-09-7	Potassium	669	J	E	P	
7782-49-2	Selenium	12.0	U		P	
7440-22-4	Silver	3.4 ~~1.7~~	~~U~~ U	N	P	
7440-23-5	Sodium	396	J		P	
7440-28-0	Thallium	8.6	U		P	
7440-62-2	Vanadium	17.2 ~~13.8~~	~~U~~ U		P	
7440-66-6	Zinc	293		*	P	
57-12-5	Cyanide	0.87 ~~1.7~~	U		AS	
7439-98-7	Molybdenum				NR	
7440-32-6	Titanium				NR	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.2

USEPA - CLP

3-IN
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0000

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	200.0	U	57.4	J	62.6	J	105.0	J	40.000	U	P
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	12.000	U	P
Arsenic	15.0	U	15.0	U	15.0	U	15.0	U	3.000	U	P
Barium	200.0	U	200.0	U	200.0	U	200.0	U	40.000	U	P
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Calcium	5000.0	U	25.2	J	17.6	J	5000.0	U	2.441	J	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	0.151	J	P
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U	10.000	U	P
Copper	25.0	U	25.0	U	25.0	U	-2.8	J	-0.519	J	P
Iron	100.0	U	100.0	U	100.0	U	100.0	U	20.000	U	P
Lead	10.0	U	10.0	U	10.0	U	2.1	J	2.000	U	P
Magnesium	5000.0	U	26.7	J	5000.0	U	5000.0	U	1000.000	U	P
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	3.000	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	0.236	J	P
Potassium	5000.0	U	5000.0	U	5000.0	U	5000.0	U	-4.370	J	P
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	7.000	U	P
Silver	10.0	U	10.0	U	10.0	U	10.0	U	0.193	J	P
Sodium	5000.0	U	5000.0	U	5000.0	U	5000.0	U	1000.000	U	P
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	5.000	U	P
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	0.331	J	P
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	12.000	U	P
Cyanide	-1.7	J	10.0	U	10.0	U	10.0	U	1.000	U	AS
Molybdenum											NR
Titanium											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			200.0	U	200.0	U	200.0	U			P
Antimony			60.0	U	60.0	U	60.0	U			P
Arsenic			15.0	U	15.0	U	15.0	U			P
Barium			200.0	U	200.0	U	200.0	U			P
Beryllium			5.0	U	5.0	U	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			17.1	J	14.5	J	34.7	J			P
Chromium			10.0	U	10.0	U	10.0	U			P
Cobalt			50.0	U	50.0	U	50.0	U			P
Copper			-2.7	J	-3.4	J	25.0	U			P
Iron			100.0	U	100.0	U	59.8	J			P
Lead			10.0	U	10.0	U	10.0	U			P
Magnesium			5000.0	U	5000.0	U	18.2	J			P
Manganese			15.0	U	15.0	U	15.0	U			P
Mercury			-0.2	J	0.2	U	0.2	U	0.100	U	CV
Nickel			40.0	U	40.0	U	40.0	U			P
Potassium			5000.0	U	5000.0	U	5000.0	U			P
Selenium			35.0	U	35.0	U	35.0	U			P
Silver			10.0	U	10.0	U	3.8	J			P
Sodium			5000.0	U	5000.0	U	5000.0	U			P
Thallium			25.0	U	25.0	U	25.0	U			P
Vanadium			50.0	U	50.0	U	3.9	J			P
Zinc			60.0	U	60.0	U	60.0	U			P
Cyanide			-1.4	J							AS
Molybdenum											NR
Titanium											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			41.1	J	200.0	U					P
Antimony			60.0	U	60.0	U					P
Arsenic			15.0	U	15.0	U					P
Barium			200.0	U	200.0	U					P
Beryllium			5.0	U	5.0	U					P
Cadmium			5.0	U	5.0	U					P
Calcium			37.4	J	25.3	J					P
Chromium			10.0	U	10.0	U					P
Cobalt			50.0	U	50.0	U					P
Copper			-3.2	J	-4.1	J					P
Iron			100.0	U	100.0	U					P
Lead			10.0	U	10.0	U					P
Magnesium			26.7	J	24.0	J					P
Manganese			15.0	U	15.0	U					P
Mercury											NR
Nickel			40.0	U	40.0	U					P
Potassium			5000.0	U	5000.0	U					P
Selenium			35.0	U	35.0	U					P
Silver			10.0	U	10.0	U					P
Sodium			5000.0	U	5000.0	U					P
Thallium			25.0	U	25.0	U					P
Vanadium			50.0	U	50.0	U					P
Zinc			60.0	U	60.0	U					P
Cyanide											NR
Molybdenum											NR
Titanium											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	243900	248400	251682	103	243058.2	98	231811	95	223491.3	90
Antimony	0	585	-2		573.3	98	-1		570.4	98
Arsenic	0	97	3		95.8	99	3		94.1	97
Barium	2	475	2	100	520.0	109	1	50	504.6	106
Beryllium	0	482	0		473.4	98	0		470.9	98
Cadmium	0	916	0		967.9	106	0		963.6	105
Calcium	234100	234300	257099	110	240833.8	103	271100	116	266302.5	114
Chromium	36	506	41	114	507.4	100	38	106	480.8	95
Cobalt	3	455	4	133	467.3	103	3	100	442.4	97
Copper	15	537	15	100	493.3	92	11	73	448.3	83
Iron	94900	95100	100842	106	97518.1	103	93425	98	90098.4	95
Lead	5	51	-9	-180	40.8	80	-10	-200	50.5	99
Magnesium	248800	254100	271637	109	253153.0	100	285309	115	279386.9	110
Manganese	19	483	20	105	504.4	104	19	100	473.3	98
Nickel	10	930	14	140	932.4	100	13	130	900.2	97
Potassium	0	0	10		20.6		6		11.4	
Selenium	0	51	-5		50.9	100	-7		43.6	85
Silver	0	210	1		195.4	93	2		195.3	93
Sodium	0	0	655		575.7		265		306.2	
Thallium	0	96	-1		99.4	104	-3		97.7	102
Vanadium	1	481	-1	-100	470.2	98	1	100	465.8	97
Zinc	39	975	37	95	999.0	102	38	97	850.1	87

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0000

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	243900	248400					232216	95	226695.5	91
Antimony	0	585					-2		552.1	94
Arsenic	0	97					-1		90.6	93
Barium	2	475					1	50	503.7	106
Beryllium	0	482					0		457.7	95
Cadmium	0	916					-1		935.7	102
Calcium	234100	234300					246479	105	241349.1	103
Chromium	36	506					39	108	474.8	94
Cobalt	3	455					3	100	441.1	97
Copper	15	537					11	73	452.3	84
Iron	94900	95100					92629	98	90464.4	95
Lead	5	51					8	160	54.0	106
Magnesium	248800	254100					258210	104	251707.4	99
Manganese	19	483					19	100	470.2	97
Nickel	10	930					14	140	893.1	96
Potassium	0	0					-9		13.6	
Selenium	0	51					-8		42.2	83
Silver	0	210					1		187.8	89
Sodium	0	0					60		135.1	
Thallium	0	96					-5		91.0	95
Vanadium	1	481					0	0	453.8	94
Zinc	39	975					39	100	893.2	92

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	243900	248400					236155	97	231844.0	93
Antimony	0	585					5		577.9	99
Arsenic	0	97					0		95.1	98
Barium	2	475					2	100	526.5	111
Beryllium	0	482					1		478.8	99
Cadmium	0	916					-1		961.4	105
Calcium	234100	234300					249673	107	245689.8	105
Chromium	36	506					41	114	491.9	97
Cobalt	3	455					4	133	458.8	101
Copper	15	537					11	73	473.6	88
Iron	94900	95100					95448	101	93961.4	99
Lead	5	51					8	160	56.1	110
Magnesium	248800	254100					258910	104	254763.1	100
Manganese	19	483					20	105	489.6	101
Nickel	10	930					15	150	926.2	100
Potassium	0	0					33		23.4	
Selenium	0	51					-8		43.1	85
Silver	0	210					2		195.4	93
Sodium	0	0					417		185.4	
Thallium	0	96					-6		97.1	101
Vanadium	1	481					1	100	471.1	98
Zinc	39	975					41	105	938.6	96

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	243900	248400					233339	96	227446.9	92
Antimony	0	585					2		570.5	98
Arsenic	0	97					2		96.6	100
Barium	2	475					2	100	518.8	109
Beryllium	0	482					1		471.6	98
Cadmium	0	916					-1		950.2	104
Calcium	234100	234300					250348	107	244089.8	104
Chromium	36	506					41	114	482.3	95
Cobalt	3	455					4	133	452.2	99
Copper	15	537					12	80	463.2	86
Iron	94900	95100					94238	99	91810.6	97
Lead	5	51					10	200	52.9	104
Magnesium	248800	254100					259933	104	253006.6	100
Manganese	19	483					20	105	479.2	99
Nickel	10	930					15	150	913.5	98
Potassium	0	0					31		25.7	
Selenium	0	51					-6		45.1	88
Silver	0	210					2		193.7	92
dium	0	0					347		197.8	
Thallium	0	96					-5		91.0	95
Vanadium	1	481					2	200	463.8	96
Zinc	39	975					40	103	915.5	94

FORM IVA-IN ILM05.2

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00299

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 59.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	30.5707		2.6785	J	33.67	83		P
Arsenic	75-125	19.2626		7.6128		13.47	86		P
Barium	75-125	738.1582		65.4259	J	673.40	100		P
Beryllium	75-125	16.9529		0.9343	J	16.84	95		P
Cadmium	75-125	18.9731		2.8148		16.84	96		P
Calcium									NR
Chromium	75-125	91.4899		30.3283		67.34	91		P
Cobalt	75-125	167.2458		4.4040	J	168.35	97		P
Copper	75-125	114.9192		37.8434		84.18	92		P
Iron									NR
Lead		63.9495		62.5673		6.73	21		P
Magnesium									NR
Manganese	75-125	320.0707		144.2727		168.35	104		P
Mercury	75-125	1.1507		0.3939		0.84	90		CV
Nickel	75-125	178.2912		16.8956		168.35	96		P
Potassium									NR
Selenium	75-125	14.6684		11.7845	U	16.84	87		P
Silver	75-125	10.9175		1.7441	J	16.84	54	N	P
Sodium									NR
Thallium	75-125	16.7054		8.4175	U	16.84	99		P
Vanadium	75-125	174.8805		12.1902	J	168.35	97		P
Zinc	75-125	416.4882		246.2239		168.35	101		P
Cyanide	75-125	8.1843		1.6835	U	8.42	97		AS
Molybdenum									NR
Titanium									NR

Comments:

FORM VA-IN ILM05.2

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME0029D

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 59.4 % Solids for Duplicate: 59.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3971.4865		3351.2896		17		P
Antimony		2.6785	J	20.2020	U	200		P
Arsenic	5.1	7.6128		3.6751	J	70		P
Barium		65.4259	J	62.8148	J	4		P
Beryllium		0.9343	J	0.4798	J	64		P
Cadmium	1.7	2.8148		2.3906		16		P
Calcium		26521.0320		36718.5976		32	*	P
Chromium		30.3283		27.9242		8		P
Cobalt		4.4040	J	3.8788	J	13		P
Copper	8.4	37.8434		35.9040		5		P
Iron		15255.4798		12477.1162		20		P
Lead		62.5673		61.1296		2		P
Magnesium		14210.3418		19871.0556		33	*	P
Manganese		144.2727		159.0976		10		P
Mercury	0.2	0.3939		0.3519		11		CV
Nickel	13.5	16.8956		15.9495		6		P
Potassium		684.4242	J	633.1599	J	8		P
Selenium		11.7845	U	11.7845	U			P
Silver		1.7441	J	1.7205	J	1		P
Sodium		262.0337	J	169.0892	J	43		P
Thallium		8.4175	U	8.4175	U			P
Vanadium		12.1902	J	10.8030	J	12		P
Zinc		246.2239		180.5707		31	*	P
Cyanide		1.6835	U	1.6835	U			AS
Molybdenum								NR
Titanium								NR

USEPA - CLP

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME0029L

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0029

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	11795.32		12042.83		2		P
Antimony	7.96	J	26.83	J	237		P
Arsenic	22.61		75.00	U	100		P
Barium	194.32	J	190.95	J	2		P
Beryllium	2.78	J	3.25	J	17		P
Cadmium	8.36		7.28	J	13		P
Calcium	78767.47		81180.45		3		P
Chromium	90.08		94.80		5		P
Cobalt	13.08	J	12.90	J	1		P
Copper	112.40		97.25	J	13	E	P
Iron	45308.78		45182.08		0		P
Lead	185.83		193.73		4		P
Magnesium	42204.72		43476.23		3		P
Manganese	428.49		434.30		1		P
Nickel	50.18		53.45	J	7		P
Potassium	2032.74	J	1678.05	J	17	E	P
Selenium	35.00	U	175.00	U			P
Silver	5.18	J	8.75	J	69		P
Sodium	778.24	J	25000.00	U	100		P
Thallium	25.00	U	125.00	U			P
Vanadium	36.21	J	43.45	J	20		P
Zinc	731.29		729.45		0		P
Molybdenum							NR
Titanium							NR

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Instrument Type: P Instrument ID: P2 Date: 07/02/2003

Preparation Method: HS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	40	3.6
Antimony	206.80	12	0.84
Arsenic	189.00	3	1.2
Barium	493.40	40	0.13
Beryllium	313.00	1	0.020
Cadmium	226.50	1	0.090
Calcium	317.90	1000	2.3
Chromium	267.70	2	0.14
Cobalt	228.60	10	0.25
Copper	324.70	5	0.35
Iron	271.40	20	4.0
Lead	220.40	2	0.17
Magnesium	279.00	1000	2.0
Manganese	257.60	3	0.060
Mercury		0.1	
Nickel	231.60	8	0.19
Potassium	766.50	1000	4.0
Selenium	196.00	7	0.78
Silver	328.00	2	0.17
Sodium	588.90	1000	97.3
Thallium	190.90	5	1.3
Vanadium	292.40	10	0.33
Zinc	206.20	12	0.31
Cyanide		1	
Molybdenum		5	
Titanium		20	

Comments:
P2: ICP 61E TRACE ANALYZER

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Instrument Type: P Instrument ID: P2 Date: 07/02/2003

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	200	31.3
Antimony	206.80	60	14.8
Arsenic	189.00	15	6.9
Barium	493.40	200	1.4
Beryllium	313.00	5	0.33
Cadmium	226.50	5	1.2
Calcium	317.90	5000	9.6
Chromium	267.70	10	2.1
Cobalt	228.60	50	2.7
Copper	324.70	25	2.5
Iron	271.40	100	35.4
Lead	220.40	10	2.1
Magnesium	279.00	5000	16.5
Manganese	257.60	15	0.77
Mercury		0.2	
Nickel	231.60	40	2.9
Potassium	766.50	5000	47.3
Selenium	196.00	35	4.6
Silver	328.00	10	3.1
Sodium	588.90	5000	816
Thallium	190.90	25	2.9
Vanadium	292.40	50	2.8
Zinc	206.20	60	2.2
Cyanide		10	
Molybdenum		20	
Titanium		100	

Comments:
P2: ICP 61E TRACE ANALYZER

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Instrument Type: CV Instrument ID: CV2 Date: 02/21/2004

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		40	
Antimony		12	
Arsenic		3	
Barium		40	
Beryllium		1	
Cadmium		1	
Calcium		1000	
Chromium		2	
Cobalt		10	
Copper		5	
Iron		20	
Lead		2	
Magnesium		1000	
Manganese		3	
Mercury	253.70	0.1	0.040
Nickel		8	
Potassium		1000	
Selenium		7	
Silver		2	
Sodium		1000	
Thallium		5	
Vanadium		10	
Zinc		12	
Cyanide		1	
Molybdenum		5	
Titanium		20	

Comments:
CV2: LEMAN HYDRA AA- MERCURY ANALYZER

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Instrument Type: AS Instrument ID: CN Date: 09/22/2003

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		40	
Antimony		12	
Arsenic		3	
Barium		40	
Beryllium		1	
Cadmium		1	
Calcium		1000	
Chromium		2	
Cobalt		10	
Copper		5	
Iron		20	
Lead		2	
Magnesium		1000	
Manganese		3	
Mercury		0.1	
Nickel		8	
Potassium		1000	
Selenium		7	
Silver		2	
Sodium		1000	
Thallium		5	
Vanadium		10	
Zinc		12	
Cyanide	578.00	1	0.13
Molybdenum		5	
Titanium		20	

Comments:
CN: KONELAB 200

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Instrument Type: AS Instrument ID: CN Date: 09/22/2003

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		15	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	1.2
Molybdenum		20	
Titanium		100	

Comments:
CN: KONELAB 200

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Preparation Method: HS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS1	04/03/2004	1.00	200
ME0020	04/03/2004	1.02	200
ME0021	04/03/2004	1.01	200
ME0022	04/03/2004	1.01	200
ME0023	04/03/2004	1.03	200
ME0024	04/03/2004	1.00	200
ME0025	04/03/2004	1.00	200
ME0026	04/03/2004	1.02	200
ME0027	04/03/2004	1.01	200
ME0028	04/03/2004	1.00	200
ME0029	04/03/2004	1.00	200
ME0029D	04/03/2004	1.00	200
ME0029S	04/03/2004	1.00	200
ME0030	04/03/2004	1.00	200
ME0031	04/03/2004	1.01	200
ME0032	04/03/2004	1.03	200
ME0033	04/03/2004	1.03	200
ME0035	04/03/2004	1.00	200
ME0036	04/03/2004	1.00	200
ME0037	04/03/2004	1.00	200
ME0038	04/03/2004	1.02	200
ME0039	04/03/2004	1.01	200
PBS1	04/03/2004	1.00	200

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB1	04/03/2004		100
CCV1	04/03/2004		100
CRI1	04/03/2004		100
ICB1	04/03/2004		100
ICV1	04/03/2004		100
LCSS1	04/03/2004	0.20	100
LCSS2	04/03/2004	0.20	100
ME0020	04/03/2004	0.21	100
ME0021	04/03/2004	0.21	100
ME0022	04/03/2004	0.21	100
ME0023	04/03/2004	0.20	100
ME0024	04/03/2004	0.21	100
ME0025	04/03/2004	0.20	100
ME0026	04/03/2004	0.22	100
ME0027	04/03/2004	0.20	100
ME0028	04/03/2004	0.22	100
ME0029	04/03/2004	0.20	100
ME0029D	04/03/2004	0.20	100
ME0029S	04/03/2004	0.20	100
ME0030	04/03/2004	0.20	100
ME0031	04/03/2004	0.21	100
ME0032	04/03/2004	0.21	100
ME0033	04/03/2004	0.21	100
ME0035	04/03/2004	0.20	100
ME0036	04/03/2004	0.22	100
ME0037	04/03/2004	0.22	100
ME0038	04/03/2004	0.20	100
ME0039	04/03/2004	0.21	100
PBS1	04/03/2004	0.20	100
PBS2	04/03/2004	0.20	100
S0	04/03/2004		100
S0.2	04/03/2004		100
S1.0	04/03/2004		100
S10.0	04/03/2004		100
S2.5	04/03/2004		100
S5.0	04/03/2004		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32724 NRAS No.: SDG No.: ME0020

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV1	04/02/2004		50
LCSS1	04/02/2004	1.00	50
ME0020	04/02/2004	1.00	50
ME0021	04/02/2004	1.00	50
ME0022	04/02/2004	1.00	50
ME0023	04/02/2004	1.00	50
ME0024	04/02/2004	1.00	50
ME0025	04/02/2004	1.00	50
ME0026	04/02/2004	1.00	50
ME0027	04/02/2004	1.00	50
ME0028	04/02/2004	1.00	50
ME0029	04/02/2004	1.00	50
ME0029D	04/02/2004	1.00	50
ME0029S	04/02/2004	1.00	50
ME0030	04/02/2004	1.00	50
ME0031	04/02/2004	1.00	50
ME0032	04/02/2004	1.00	50
ME0033	04/02/2004	1.00	50
ME0035	04/02/2004	1.00	50
ME0036	04/02/2004	1.00	50
ME0037	04/02/2004	1.00	50
ME0038	04/02/2004	1.00	50
ME0039	04/02/2004	1.00	50
MIDRANGE1	04/02/2004		50
PBS1	04/02/2004	1.00	50

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: H|E0020 CERCLIS No: ILD980497721

Case No: 32724 Site Name/Location: CARLSTROM LANDFILL

Contractor or EPA Lab: CHEMTECH Data User: IEPA

No. of Samples: 19 Date Sampled or Date Received: 4-22-04

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 19 No. of samples received: 19

Received by: Ena M. Dixon/ESAT Date: 4-22-04

Received by LSSS: Ena M. Dixon/ESAT Date: 4-22-04

Review started: 4-26-04 Reviewer Signature: J Gary

Total time spent on review: 18 Date review completed: 5-28-04

Copied by: Ena M. Dixon/ESAT Date: 5-21-04

Mailed to user by: Ena M. Dixon/ESAT Date: 5-21-04

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: May 13, 2004

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

MAY 1 7 2004

Attn: Bob Casper

SITE NAME: Carlstrom Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
32724	A4 Scientific	7	E0010	Water

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

MAY 1 3 2004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on April 21, 2004

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

MAY 1 7 2004

We have reviewed the data for the following case:

Site name: Carlstrom Landfill (IL)

Case number: 32724 SDG Number: E0010

Number and Type of Samples: 7 water samples (VOA, SV)

Sample Numbers: E0010, E0011, E0013-E0016, E0018

Laboratory: A4 Scientific Hrs. for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SM-5J

Case Number : 32724
Site Name: Carlstrom Landfill (IL)

SDG Number: E0010
Laboratory: A4 Scientific

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Seven water samples, numbered E0010, E0011, E0013, E0014, E0015, E0016 and E0018 were collected on 03/30/2004. The laboratory received the samples on 03/31/2004 in good condition. Sample E0016 was analyzed for only the list of volatile analytes. The remaining samples were analyzed for the full list of organic analytes. All samples were analyzed according to CLP SOW OLC03.2 and reviewed according to USEPA CLP National Guidelines for Low Concentration Organic Data Review (June 2001).

Reviewed By: Steffanie Tobin (Alion/ESAT)
Date: May 12, 2004

Case Number : 32724
Site Name: Carlstrom Landfill (IL)

SDG Number: E0010
Laboratory: A4 Scientific

1. HOLDING TIME

No problems were found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

1,2,3-Trichlorobenzene
E0010, E0011, E0013, E0013MS, E0013MSD, E0014, E0015, E0016, E0018, VBLK5A, VHBLK01

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene
E0010, E0011, E0013, E0013MS, E0013MSD, E0014, E0015, E0016, E0018, VBLK5A, VHBLK01

The following volatile samples are associated with an initial calibration in which a SMC/DMC exceede rcent relative standard deviation (%RSD) criteria. Hits and non-detects are not qualified.

Vinyl Chloride-d3
E0010, E0011, E0013, E0013MS, E0013MSD, E0014, E0015, E0016, E0018, VBLK5A, VHBLK01

The following pesticide samples are associated with a three point initial calibration in which the % RSD of calibration factors exceeds criteria. Hits are qualified "J" and non-detects are qualified "UJ".

alpha-Chlordane, gamma-Chlordane
E0010, E0011, E0013, E0013MS, E0013MSD, E0014, E0015, E0018, PBLK7O

4. METHOD BLANKS

No problems were found for this qualification.

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E0013MSD
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3-Dichlorobenzidine

The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Hits are qualified "J" and non-detects are qualified "UJ".

Reviewed By: Steffanie Tobin (Alion/ESAT)
Date: May 12, 2004

Case Number : 32724
Site Name: Carlstrom Landfill (IL)

SDG Number: E0010
Laboratory: A4 Scientific

E0010
Dibenzofuran, Fluorene, 4-Chlorophenyl-phenylether, 4-Bromophenyl-phenylether

E0013
Caprolactam, 1,1'-Biphenyl, Dimethylphthalate, Dibenzofuran, Diethylphthalate, Fluorene, 4-Chlorophenyl-phenylether, 4-Bromophenyl-phenylether, Di-n-butylphthalate, Butylbenzylphthalate, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate

E0013MS
4,6-Dinitro-2-methylphenol

E0014
2-Methylphenol, 4-Methylphenol, 2,4-Dimethylphenol, 4,6-Dinitro-2-methylphenol

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compounds in the unspiked sample E0013 are estimated "J" and non-detects "UJ".

E0013MS, E0013MSD
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery above the QC limit. Results for the outlier compounds in the unspiked sample E0013 are qualified above.

E0013MS, E0013MSD
Heptachlor

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery above the QC limit. Results for the outlier compounds in the unspiked sample E0013 are qualified "J" and non-detects are not flagged.

E0013MS, E0013MSD
Endrin

6B. LABORATORY CONTROL SAMPLE (Pesticides)

No qualification were found for this qualification.

7. FIELD BLANK AND FIELD DUPLICATE

Sample E0010 was identified as the field blank and sample E0016 was identified as the trip blank. None of the samples were identified as field duplicates but samples E0014 and E0015 had the same collection date and time. The results for the QC blanks and possible field duplicates are presented in the following table:

Analytes dilution factor =	E0010 (FB)	E0016 (TB)	E0014	E0015
	1.0	1.0	1.0	1.0
VOA TIC	1	ND	ND	ND
i-n-butylphthalate	ND	ND	1.7	1.5

Reviewed By: Steffanie Tobin (Alion/ESAT)
Date: May 12, 2004

Case Number : 32724 **SDG Number: E0010**
Site Name: Carlstrom Landfill (IL) **Laboratory: A4 Scientific**

Sample results are not qualified based upon the results of the QC blanks.

8. INTERNAL STANDARDS

No qualification were found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms, it appears that all VOA, SVOA and Pest/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0018
1,1,1-Trichloroethane

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0014, E0015
Di-n-butylphthalate

The following pesticide samples have analytes for which the percent difference between column results ceeds primary criteria. Hits are qualified "J".

E0013MS, E0013MSD
Heptachlor

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. GC baseline indicated acceptable performance

12. ADDITIONAL INFORMATION

Due to interference, the results of Heptachlor on the primary column (RTX-Pest) for Pest/PCB samples E0013MS and E0013MSD were quantitated outside the calibration range. No further dilution was analyzed since these samples were used for QC purposes only.

Reviewed By: Steffanie Tobin (Alion/ESAT)
Date: May 12, 2004

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Date: 4/20/2004 Wincadre 3.1.3.2 Page: 1

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0010
Sample Type: Field Blank
Lab ID: A4 Location: FIELD BLANK
Case No.: 32724 Matrix/Level: Water/
SDG No.: E0010 File Name: E0010

Concentration

CAS No.	Compound Name	RT	(UG/L)	Q*
	UNKNOWN	8.23	0.56	J

*Q: Laboratory Qualifier

Date: 4/20/2004 Wincadre 3.1.3.2 Page: 2

Low Concentration Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0013
Sample Type: Spike Original
Lab ID: A4 Location: G203
Case No.: 32724 Matrix/Level: Water/
SDG No.: E0010 File Name: E0010

Concentration

CAS No.	Compound Name	RT	(UG/L)	Q*
	UNKNOWN	11.81	2.3	J

*Q: Laboratory Qualifier

Date: 4/20/2004 Wincadre 3.1.3.2 Page: 3

Low Concentration Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0013MS
Sample Type: Matrix Spike
Lab ID: A4 Location: G203
Case No.: 32724 Matrix/Level: Water/
SDG No.: E0010 File Name: E0010

Concentration

CAS No.	Compound Name	RT	(UG/L)	Q*
	UNKNOWN	11.81	2.3	J

*Q: Laboratory Qualifier

Date: 4/20/2004 Wincadre 3.1.3.2 Page: 4

Low Concentration Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: SBLK80
Sample Type: Method Blank
Lab ID: A4 Location:
Case No.: 32724 Matrix/Level: Water/
SDG No.: E0010 File Name: E0010

Concentration

CAS No.	Compound Name	RT	(UG/L)	Q*
	UNKNOWN	5.14	2.4	J
	UNKNOWN	12.26	4.6	J
	UNKNOWN	13.14	3.7	J
	UNKNOWN	13.38	2.0	J

*Q: Laboratory Qualifier

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples 0
Number of Water Samples 6

Sample Number :	E0010		E0011		E0013		E0013MS		E0013MSD	
Sampling Location :	FIELD BLANK		G501		G203		G203		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004		3/30/2004	
Time Sampled :	12:00		10:40		11:55		11:55		11:55	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	5.9		6.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon Disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl Acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-Butyl Ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon Tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	5.3		5.6	
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichloroethene	0.50	U	0.50	U	0.50	U	5.2		5.4	
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	5.3		5.6	
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0010		E0011		E0013		E0013MS		E0013MSD	
Sampling Location :	FIELD BLANK		G501		G203		G203		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004		3/30/2004	
Time Sampled :	12:00		10:40		11:55		11:55		11:55	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	5.3		5.6	
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Xylenes (total)	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ
1,2,3-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0014		E0015		E0016		E0018		VBLK5A	
Sampling Location :	G201		G202		TRIP BLANK		G204			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004			
Time Sampled :	13:40		13:40		15:00		14:30			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon Disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl Acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-Butyl Ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
s-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.35	J	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon Tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0014		E0015		E0016		E0018		VBLK5A	
Sampling Location :	G201		G202		TRIP BLANK		G204			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004			
Time Sampled :	13:40		13:40		15:00		14:30			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Xylenes (total)	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ
1,2,3-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	VHBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U								
Chloromethane	0.50	U								
Vinyl Chloride	0.50	U								
Bromomethane	0.50	U								
Chloroethane	0.50	U								
Trichlorofluoromethane	0.50	U								
1,1-Dichloroethene	0.50	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U								
Acetone	5.0	U								
Carbon Disulfide	0.50	U								
Methyl Acetate	0.50	U								
Methylene Chloride	0.50	U								
trans-1,2-Dichloroethene	0.50	U								
Methyl tert-Butyl Ether	0.50	U								
1,1-Dichloroethane	0.50	U								
cis-1,2-Dichloroethene	0.50	U								
2-Butanone	5.0	U								
Bromochloromethane	0.50	U								
Chloroform	0.50	U								
1,1,1-Trichloroethane	0.50	U								
Cyclohexane	0.50	U								
Carbon Tetrachloride	0.50	U								
Benzene	0.50	U								
1,2-Dichloroethane	0.50	U								
Trichloroethene	0.50	U								
Methylcyclohexane	0.50	U								
1,2-Dichloropropane	0.50	U								
Bromodichloromethane	0.50	U								
cis-1,3-Dichloropropene	0.50	U								
4-Methyl-2-pentanone	5.0	U								
Toluene	0.50	U								
trans-1,3-Dichloropropene	0.50	U								
1,1,2-Trichloroethane	0.50	U								

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	VHBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U								
2-Hexanone	5.0	U								
Dibromochloromethane	0.50	U								
1,2-Dibromoethane	0.50	U								
Chlorobenzene	0.50	U								
Ethylbenzene	0.50	U								
Xylenes (total)	0.50	U								
Styrene	0.50	U								
Bromoform	0.50	U								
Isopropylbenzene	0.50	U								
1,1,2,2-Tetrachloroethane	0.50	U								
1,3-Dichlorobenzene	0.50	U								
1,4-Dichlorobenzene	0.50	U								
1,2-Dichlorobenzene	0.50	U								
2-Dibromo-3-chloropropene	0.50	U								
1,2,4-Trichlorobenzene	0.50	UJ								
1,2,3-Trichlorobenzene	0.50	UJ								

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
eviewer : S. Tobin
ate : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0010		E0011		E0013		E0013MS		E0013MSD	
Sampling Location :	FIELD BLANK		G501		G203		G203		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004		3/30/2004	
Time Sampled :	12:00		10:40		11:55		11:55		11:55	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	5.0	U	41		57	
bis-(2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	46		59	
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,2'-oxybis(1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	18		20	
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
s(2-Chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	41		56	
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Acenaphthene	5.0	U	5.0	U	5.0	U	16		21	

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0010		E0011		E0013		E0013MS		E0013MSD	
Sampling Location :	FIELD BLANK		G501		G203		G203		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004		3/30/2004	
Time Sampled :	12:00		10:40		11:55		11:55		11:55	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U	20	U
4-Nitrophenol	20	U	20	U	20	U	57		63	
Dibenzofuran	5.0	UJ	5.0	U	5.0	UJ	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	17		18	
Diethylphthalate	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
Fluorene	5.0	UJ	5.0	U	5.0	UJ	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	UJ	5.0	U	5.0	UJ	5.0	U	5.0	U
4-Nitroaniline	20	U	20	U	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	UJ	20	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	UJ	5.0	U	5.0	UJ	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
entachlorophenol	5.0	U	5.0	U	5.0	U	59		70	
henanthrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	13		14	
Butylbenzylphthalate	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
bis(2-Ethylhexyl)phthalate	5.0	U	7.6		5.0	UJ	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0014		E0015		E0018		SBLK8O			
Sampling Location :	G201		G202		G204					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	3/30/2004		3/30/2004		3/30/2004					
Time Sampled :	13:40		13:40		14:30					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U		
Phenol	5.0	U	5.0	U	5.0	U	5.0	U		
bis-(2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U		
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U		
2,2'-oxybis(1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U		
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U		
4-Methylphenol	5.0	UJ	5.0	U	5.0	U	5.0	U		
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U		
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U		
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U		
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U		
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U		
2,4-Dimethylphenol	5.0	UJ	5.0	U	5.0	U	5.0	U		
bis(2-Chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U		
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U		
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U		
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U		
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U		
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U		
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U		
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U		
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U		
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U		
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U		
2-Nitroaniline	20	U	20	U	20	U	20	U		
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U		
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U		
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U		
3-Nitroaniline	20	U	20	U	20	U	20	U		
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U		

Analytical Results (Qualified Data)

Case #: 32724
SDG : E0010
Site : CARLSTROM LANDFILL (IL)
A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0014		E0015		E0018		SBLK8O			
Sampling Location :	G201		G202		G204					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	3/30/2004		3/30/2004		3/30/2004					
Time Sampled :	13:40		13:40		14:30					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U		
4-Nitrophenol	20	U	20	U	20	U	20	U		
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U		
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U		
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U		
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U		
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U		
4-Nitroaniline	20	U	20	U	20	U	20	U		
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U		
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U		
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U		
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U		
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U		
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U		
Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U		
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U		
Di-n-butylphthalate	1.7	J	1.5	J	5.0	U	5.0	U		
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U		
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U		
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U		
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U		
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U		
bis(2-Ethylhexyl)phthalate	5.0	U	5.0	U	5.0	U	5.0	U		
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U		
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U		
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U		

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab. : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples 0
Number of Water Samples 6

Sample Number :	E0010		E0011		E0013		E0013MS		E0013MSD	
Sampling Location :	FIELD BLANK		G501		G203		G203		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	3/30/2004		3/30/2004		3/30/2004		3/30/2004		3/30/2004	
Time Sampled :	12:00		10:40		11:55		11:55		11:55	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-BHC (Lindane)	0.010	U	0.010	U	0.010	UJ	0.096		0.12	
Heptachlor	0.010	U	0.010	U	0.010	UJ	0.090	J	0.11	J
Aldrin	0.010	U	0.010	U	0.010	UJ	0.073		0.092	
Heptachlor epoxide	0.010	U	0.010	U	0.010	UJ	0.010	U	0.010	U
Endosulfan I	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Dieldrin	0.020	U	0.020	U	0.020	UJ	0.19		0.23	
4,4'-DDE	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin	0.020	U	0.020	U	0.020	U	0.21		0.25	
Endosulfan II	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDD	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endosulfan sulfate	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4'-DDT	0.020	U	0.020	U	0.020	U	0.19		0.23	
athoxychlor	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin ketone	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin aldehyde	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
alpha-Chlordane	0.010	UJ	0.010	UJ	0.010	UJ	0.010	UJ	0.010	UJ
gamma-Chlordane	0.010	UJ	0.010	UJ	0.010	UJ	0.010	UJ	0.010	UJ
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Aroclor-1232	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1248	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1260	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Analytical Results (Qualified Data)

Case #: 32724 SDG : E0010
Site : CARLSTROM LANDFILL (IL)
Lab : A4 SCIENTIFIC
Reviewer : S. Tobin
Date : 05-12-2004

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	E0014		E0015		E0018		PBLK7O			
Sampling Location :	G201		G202		G204					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	3/30/2004		3/30/2004		3/30/2004					
Time Sampled :	13:40		13:40		14:30					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	U		
beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U		
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U		
gamma-BHC (Lindane)	0.010	U	0.010	U	0.010	U	0.010	U		
Heptachlor	0.010	U	0.010	U	0.010	U	0.010	U		
Aldrin	0.010	U	0.010	U	0.010	U	0.010	U		
Heptachlor epoxide	0.010	U	0.010	U	0.010	U	0.010	U		
Endosulfan I	0.010	U	0.010	U	0.010	U	0.010	U		
Dieldrin	0.020	U	0.020	U	0.020	U	0.020	U		
4,4'-DDE	0.020	U	0.020	U	0.020	U	0.020	U		
Endrin	0.020	U	0.020	U	0.020	U	0.020	U		
Endosulfan II	0.020	U	0.020	U	0.020	U	0.020	U		
4,4'-DDD	0.020	U	0.020	U	0.020	U	0.020	U		
Endosulfan sulfate	0.020	U	0.020	U	0.020	U	0.020	U		
4'-DDT	0.020	U	0.020	U	0.020	U	0.020	U		
Methoxychlor	0.10	U	0.10	U	0.10	U	0.10	U		
Endrin ketone	0.020	U	0.020	U	0.020	U	0.020	U		
Endrin aldehyde	0.020	U	0.020	U	0.020	U	0.020	U		
alpha-Chlordane	0.010	UJ	0.010	UJ	0.010	UJ	0.010	UJ		
gamma-Chlordane	0.010	UJ	0.010	UJ	0.010	UJ	0.010	UJ		
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U		
Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U		
Aroclor-1232	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1248	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1260	0.20	U	0.20	U	0.20	U	0.20	U		

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 4-21-04

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: CARLSTROM LANDFILL (IL)

CASE NUMBER: 32724 SDG NUMBER: E0010

Number and Type of Samples: 7 (WATER)

Sample Numbers: E0010-11, 13-16, 18

Laboratory: A4 SCIENTIFIC Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SM-5J

Sample Delivery Group(SDG)
Cover Sheet

SDG Number: E0010

Laboratory Name.: A4 SCIENTIFIC, INC. **Laboratory Code.:** A4

Contract No.: 68W01038 **Case No.:** 32724

Analysis Price: $390.00 **SDG Turnaround:** 21 days

EPA Sample Numbers in SDG(Listed in Numerical Order)

1)E0010	7)E0018	13)	19)
2)E0011	8)	14)	20)
3)E0013	9)	15)	21)
4)E0014	10)	16)	22)
5)E0015	11)	17)	23)
6)E0016	12)	18)	24)

E0010
First Sample in SDG

E0018
Last Sample in SDG

03/31/2004
First Sample Receipt Date

03/31/2004
Last Sample Receipt Date

Note: There are a maximum of 20 samples (excluding PE sample) in SDG. Attach TRs to this form in alphanumeric order(the order listed above on this form).

Signature _____ **Date** 4/02/04

005

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Rec

Case No: 3274
DAS No:
SDG No: E0010

L

Date Shipped:	3/30/2004
Carrier Name:	UPS
Airbill:	1Z6215892210024731
Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jerry Willman	3/30/04 1730		
2			
3			
4		Surnane Reddy	3/31/04 9:30

For Lab Use Only

Lab Contract No:	68W01038
Unit Price:	$390.00
Transfer To:	
Lab Contract No:	SR 3/31/04
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0010	Ground Water/ Jerry Willman	L/G	BNA/PEST (21), VOA (21)	5-277998 (HCL), 5-277999 (HCL), 5-278000 (HCL), 5-278001 (HCL), 5-278002 (HCL), 5-278003, 5-278004 (7)	Field Blank	S: 3/30/2004	12:00		1st sp 4703.002 Intact
E0011	Ground Water/ Jerry Willman	L/G	BNA/PEST (21), VOA (21)	5-278005 (HCL), 5-278006 (HCL), 5-278007 (HCL), 5-278008 (HCL), 5-278009 (HCL), 5-278010 (Ice Only), 5-278011 (Ice Only) (7)	G501	S: 3/30/2004	10:40		.003
E0013	Ground Water/ Jerry Willman	L/G	BNA/PEST (21), VOA (21)	5-278019 (HCL), 5-278020 (HCL), 5-278021 (HCL), 5-278022 (HCL), 5-278023 (HCL), 5-278024 (HCL), 5-278025 (HCL), 5-278026 (HCL), 5-278027 (HCL), 5-278028 (HCL), 5-278029 (HCL), 5-278030 (HCL), 5-278031 (HCL), 5-278032 (HCL), 5-278033 (HCL), 5-278034 (Ice Only), 5-278035 (Ice Only), 5-278036 (Ice Only), 5-278037 (Ice Only), 5-278038 (Ice Only), 5-278039 (Ice Only) (21)	G203	S: 3/30/2004	11:55		.004

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0013	[signature]	2C, 2.5, 2.5, 3	27977, 27978, 27979, 27980

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? Y Shipment Iced? Y

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles

TR Number: 5-314975591-033004-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Reco.

Case No:	3274
DAS No:	
SDG No:	E0010

L

Date Shipped:	3/30/2004
Carrier Name:	UPS
Airbill:	1Z6215892210024731
Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jerry Willman	3/30/04 1730		
2			
3			
4		Summer Leddy	3/31/04 9:30

For Lab Use Only

Lab Contract No:	68W01028
Unit Price:	$340.00
Transfer To:	
Lab Contract No:	3/31/01
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0014	Ground Water/ Jerry Willman	L/G	BNA/PEST (21), VOA (21)	5-278040 (HCL), 5-278041 (HCL), 5-278042 (HCL), 5-278043 (HCL), 5-278044 (HCL), 5-278045 (Ice Only), 5-278046 (Ice Only) (7)	G201	S: 3/30/2004	13:40		4703-005 Intact
E0015	Ground Water/ Jerry Willman	L/G	BNA/PEST (21), VOA (21)	5-278047 (HCL), 5-278048 (HCL), 5-278049 (HCL), 5-278050 (HCL), 5-278051 (H2SO4), 5-278052 (Ice Only), 5-278053 (Ice Only) (7)	G202	S: 3/30/2004	13:40		006
E0016	Ground Water/ Jerry Willman	L/G	VOA (21)	5-278054 (HCL), 5-278055 (HCL) (2)	Trip Blank	S: 3/30/2004	15:00		007
E0018	Ground Water/ Jerry Willman	L/G	BNA/PEST (21), VOA (21)	5-278056 (HCL), 5-278057 (HCL), 5-278058 (HCL), 5-278059 (HCL), 5-278060 (HCL), 5-278061 (Ice Only), 5-278062 (Ice Only) (7)	G204	S: 3/30/2004	14:30	SDG-Final Sample	008

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0013	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°, 2.5°, 2.5°, 8°C	Chain of Custody Seal Number: 27477, 27478, 27479, 27480
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles

TR Number: 5-314975591-033004-0001

PR provides p[illegible]ary results. Requests for preliminary results will increase analytical costs.
Send Copy to. [illegible]nple Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: 68W01038	Case #: 32724	SDG #: E0010

SDG NARRATIVE

SAMPLE RECEIPT & LOGIN

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE /TIME RECEIVED	AIRBILL NO.	VOA	BNA	PEST	REMARKS
E0010	4703.002	03/31/04 09:30	1Z62158922100 24731	X	X	X	
E0011	4703.003	03/31/04 09:30	1Z62158922100 24731	X	X	X	
E0013	4703.004	03/31/04 09:30	1Z62158922100 24731	X	X	X	
E0014	4703.005	03/31/04 09:30	1Z62158922100 24731	X	X	X	
E0015	4703.006	03/31/04 09:30	1Z62158922100 24731	X	X	X	
E0016	4703.007	03/31/04 09:30	1Z62158922100 24731	X			
E0018	4703.008	03/31/04 09:30	1Z62158922100 24731	X	X	X	

The cooler temperatures are listed against the coolers.

DATE RECEIVED	COOLER NO.	Temp (in °C)
03/31/04	1	2
03/31/04	2	2.5
03/31/04	3	2.5
03/31/04	4	3

Per Scheduling Notification the the case number is 32724, but on TR/COC the case number is listed as 3274. SMO was notified and resolution is enclosed
No other discrepancies or issues were noted during sample receipt and login.

VOLATILES

Samples were analyzed using instrument **E-5973**.

Instrument **E-5973** consisted of an Agilent 5973 GC/MS with a 25-meter long DB-624 (Agilent cat# 128-1324) column having a 0.2mm ID and 1.12µm film thickness, a Tekmar Purge and Trap Model LSC2000 with an Archon autosampler. The trap used was a K trap (Supelco Cat # 21066-U; VOCARB 3000) having 10cm of Carbopack B, 6cm of Carboxen 1000, and 1cm Carboxen 1001.

Secondary ions are used for the quantitation of 1,1-Dichloroethene-d_2, Chloroform-d, and 2-Hexanone-d_5 to minimize the interferences from the associated target compounds and common non-target compounds.

around RT of 7.8 min is a contaminant (cis isomer of 1,3-Dichloropropene-d4) from the DMC solution supplied by Cambridge Isotope Limited (CIL). According to CIL trans-1,3-Dichloropropene-d4 is manufactured as cis and trans mix and

SDG NARRATIVE

therefore the DMC solution that they supply contains both the isomers. The concentration of this contaminant is between 2µg/L to 4µg/L.

All VOA samples had the pH characteristic verified. The reading is listed below.

EPA SAMPLE #	LAB SAMPLE #	pH
E0010	4703.002	≤ 2
E0011	4703.003	≤ 2
E0013	4703.004	≤ 2
E0014	4703.005	≤ 2
E0015	4703.006	≤ 2
E0016	4703.007	≤ 2
E0018	4703.008	≤ 2

Manual integrations were performed for the following samples for the compounds listed against them.
VSTD0254Z - Trichlorofluoromethane
VSTD0104Z - Trichlorofluoromethane
VSTD0054Z - Trichlorofluoromethane
VSTD0054Z – 1,1,2-Trichloro-1,2,2-trif
V[illegible]D0014Z - Trichlorofluoromethane
VSTD0014Z – 1,1,2-Trichloro-1,2,2-trif
VSTD0.54Z - Trichlorofluoromethane
VSTD0.54Z – 1,1,2-Trichloro-1,2,2-trif
VSTD0055A - Trichlorofluoromethane
VSTD0.54Z - Trichlorofluoromethane

These manual integrations were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration, the scan ranges, and initials of the analyst or manager is included in the data package.

SEMI-VOLATILES

Samples were extracted using the required continuous liquid-liquid extraction method on 04/05/2004. No problems were encountered during extraction.

All samples were analyzed on a HP5973 GC-MS using a 30-meterHP-5MS column (Agilent cat#19091S-433) having a 0.25mm ID and a 0.25µm film thickness. A 1µL injection was used.

Manual integrations were performed for the following samples for the compounds listed against them.
SSTD0106F – Benzaldehyde
SSTD0106F – Caprolactam
SSTD0206F – Caprolactam
SSTD0506F – Caprolactam
SSTD0806F – Caprolactam
S[illegible]00206G – Caprolactam

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Contract #: 68W01038	Case #: 32724	SDG #: E0010

SDG NARRATIVE

These manual integrations were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration, the scan ranges, and initials of the analyst or manager is included in the data package.

PESTICIDES

Samples were extracted using separatory funnel extraction method on 04/05/2004. No problems were encountered during extraction.

Samples were analyzed using instrument **C-6890**.

Instrument C-6890 consisted of a dual inlet, dual ECD Agilent 6890 GC/ECD instrument with the following two columns manufactured by Restek. A 1µL injection was used on each column

Coulmn 1= RTX-PEST: Cat # 11140, 30m long, 0.53mm ID, 0.5µm film thickness (Instrument ID: C-6890A).
Column 2 = RTX-PEST2: Cat # 111340, 30m long, 0.53mm ID, 0.42µm film thickness (instrument ID: C-6890B)

A 1µL injection was used on each column.

Manual integrations were performed for the following compounds for the samples listed against them.

COMPOUND	*EPA SAMPLE ID (Inst=C-6890A)*	*EPA SAMPLE ID (Inst=C-6890B)*
Alpha-BHC		PEM3I
Aldrin	E0013MS, E0013MSD	
Alpha-Chlordane	INDBL1B	
Gamma-Chlordane	INDBL1B	INDBL3B
4,4'-DDT		*PEM3B, PEM3C, PEM3E, INDAM3E*
Methoxychlor		PEM3G
Endrin		PEM3C, PEM3F, PEM3G, PLCS3N
Endirn Ketone		PEM3D, PEM3F
Endosulfan I	INDAL1B	
Tetrachloro-m-xylene	E0010	
Decachlorobiphenyl	PEM1B, AR12211B, AR12321B, AR12421B, AR12481B, AR12541B, INDAL1B, INDBL1B, PIBLK1B, PIBLK1C, INDAM1C, PIBLK1D, PIBLK1G, PIBLK1E, PIBLK1F, PEM1E, AR12421C, INDAM1E, INDBM1E, INDAM1G, INDBM1G, PIBLK1I, PEM1G, PIBLK1J, INDAM1F, PBLK7O, INDBM1F, PIBLK1K, PEM3H, PLCS3N, PIBLK1L, PIBLK1M, PIBLK1N, E0010	PEM3B, AR12213B, AR12323B, AR12423B, AR12483B, AR12543B, INDAL3B, INDBL3B, INDBM3B, PIBLK3B, PEM3C, PIBLK3C, PIBLK3G, PIBLK3D, PEM3D, PEM3F, PIBLK3E, INDAM3D, PIBLK3F, PEM3H, E0010, AR12423C, INDAM3E, INDBM3E, PIBLK3H, PIBLK3I, PEM3G, PIBLK3J, INDAM3F, INDBM3F, PIBLK3K, PIBLK3L, PIBLK3M, PBLK7J, PBLK7O, PIBLK3N, INDAM3H, INDBM3H, E0011, E0013MS, E0015
Aroclor-1221{1}	AR12211B	
Aroclor-1221{2}	AR12211B	
Aroclor-1221{3}	AR12211B	

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Contract #: 68W01038	Case #: 32724	SDG #: E0010

SDG NARRATIVE

These manual integrations were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration, the scan ranges, and initials of the analyst or manager is included in the data package.

The following equations are used for calculation of sample results from raw instrument output data:

Volatiles:

$$\text{Concentration } (\mu g/L) = \frac{(Ax)(Is)(Df)}{(Ais)(RRF)(Vo)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the internal standard.
I_s = Amount of internal standard added in nanograms (ng).
RRF = the relative response factor from the continuing calibration method.
V_o = Total volume of water purged, in milliliters (mL).
Df = Dilution factor.

Semivolatiles:

$$\text{Concentration } (\mu g/L) = \frac{(Ax)(Is)(Vt)(Df)}{(Ais)(RRF)(Vo)(Vi)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the internal standard.
I_s = Amount of internal standard added in nanograms (ng).
RRF = the relative response factor from the continuing calibration method.
V_o = Total volume of water extracted, in milliliters (mL).
V_i = Volume of extract injected in microliters (µL).
V_t = Volume of concentrated extract in microliters (µL). (V_t = 1000µL).
Df = Dilution factor.

Pesticides:

$$\text{Concentration } (\mu g/L) = \frac{(Ax)(Vt)(Df)}{(CFmp)(Vi)(Vx)}$$

A_x = Response (peak area or height) of the compound to be measured.
CF_{mp} = Calibration factor for the mid-point from initial calibration standard (area per ng).
V_t = Volume of concentrated extract (µL). (This volume is 2000 µL).
V_i = Volume of extract injected in microliters (µL).
V_x = Volume of water extracted (mL).
Df = Dilution factor.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

[signature] GC coordinator

Signature and Title

4/19/2004

Date of Signature

004

sumana@a4scientific.com

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Sumana (E-mail)" <sumana@a4scientific.com>
Cc: "Bob Casper (E-mail)" <epa4407@epa.state.il.us>; "Mark Wagner (E-mail 2)" <EPA4415@epa.state.il.us>; "Carlene Thomas (E-mail)" <thomas.carlene@epa.gov>; "Howard Pham (E-mail)" <pham.howard@epa.gov>
Sent: Friday, April 02, 2004 9:55 AM
Subject: Region 05 | Case 32724 | Lab A4 | Issue Discrepancies with tags, jars, and/or TR/COC | FINAL

Hi Sumana,

Per Region 5, the correct Case number is 32724, not 3724 as reported on the TR/COC.

Thanks!
Jessica

-----Original Message-----
From: Thomas.Carlene@epamail.epa.gov [mailto:Thomas.Carlene@epamail.epa.gov]
Sent: Friday, April 02, 2004 10:38 AM
To: Brown, Jessica
Subject: Re: Region 05 | Case 32724 | Lab A4 | Issue

Jessica -

Please proceed with recommendation per Mark Webber and make a note in the case narrative.

Carlene

-Original Message-----
n: Brown, Jessica
Sent: Friday, April 02, 2004 9:48 AM
To: Carlene Thomas (E-mail)
Subject: Region 05 | Case 32724 | Lab A4 | Issue

Hi Carlene,

A4 is still waiting for the resolution to the issue below. Please advise on how the lab is to proceed.

Thanks,
Jessica

-----Original Message-----
From: Brown, Jessica
Sent: Wednesday, March 31, 2004 2:22 PM
To: Carlene Thomas (E-mail)
Subject: FW: Region 05 | Case 32724 | Lab A4 | Issue

Hi Carlene,

Following is the resolution provided by Mark Webber, IL-EPA. Please advise.

Thanks!
Jessica

1/04 2:18PM Jessica Brown, SMO, received a call from Mark Webber, IL-EPA, concerning Case 32724. The correct e number is 32724, not 3724 as reported on the TR/COC.

-----Original Message-----
From: Brown, Jessica

Sent: Wednesday, March 31, 2004 12:34 PM
To: Bob Casper (E-mail); Mark Wagner (E-mail 2)
Cc: Carlene Thomas (E-mail)
Subject: Region 05 | Case 32724 | Lab A4 | Issue

Bob and Mark,

The following is an email from A4 concerning Case 32724. SMO has not yet received the shipping information for this Case to verify the Case number.

Please advise.

Thanks!

Jessica Brown
Computer Sciences Corporation
CLP Coordinator for Regions 4, 5, & 8
Phone: (703) 818-4215
Fax: (703) 818-4602
jessica.brown@dyncorp.com

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-----Original Message-----
From: sumana@a4scientific.com [mailto:sumana@a4scientific.com]
Sent: Wednesday, March 31, 2004 12:04 PM
Brown, Jessica
Subject: Case : 32724

Hi Jessica,

Per scheduling notification the case number is 32724, but it is listed as 3274 on the TR/COC. please advice how to proceed.

Thanks,
Sumana

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK5A	96	106	103	99	98	95	99
02	E0010	101	113	110	93	104	102	105
03	E0011	96	109	111	99	99	96	98
04	E0013	97	110	108	98	97	98	99
05	E0013MS	97	111	109	82	98	97	98
06	E0013MSD	101	114	113	106	102	103	103
07	E0014	100	119	117	100	103	109	102
08	E0015	103	120	119	106	103	107	103
09	E0016	96	111	116	90	102	104	100
10	E0018	105	119	116	107	105	108	101
11	VHBLK01	112	124	118	109	108	110	105
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			QC LIMITS
VDMC1	(VCL)	= Vinyl Chloride-d3	(49-138)
VDMC2	(CLA)	= Chloroethane-d5	(60-126)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(65-130)
VDMC4	(BUT)	= 2-Butanone-d5	(42-171)
VDMC5	(CLF)	= Chloroform-d	(80-123)
VDMC6	(DCA)	= 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN)	= Benzene-d6	(78-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

	EPA SAMPLE NO.	VDMC8 (DPA)#	VDMC9 (TOL)#	VDMC10 (TDP)#	VDMC11 (HEX)#	VDMC12 (BRF)#	VDMC13 (TCA)#	VDMC14 (DCZ)#	TOT OUT
01	VBLK5A	103	98	89	85	105	100	117	0
02	E0010	110	105	92	87	113	108	118	0
03	E0011	103	98	89	83	108	105	118	0
04	E0013	103	98	89	86	110	104	117	0
05	E0013MS	102	97	90	67	111	98	118	0
06	E0013MSD	109	102	97	94	120	109	125	0
07	E0014	108	103	92	84	117	116	125	0
08	E0015	109	103	93	96	119	114	127	0
09	E0016	105	99	91	77	120	110	124	0
10	E0018	107	100	92	93	115	114	124	0
11	VHBLK01	110	104	83	90	125	113	134	0
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			QC LIMITS
VDMC8	(DPA)	= 1,2-Dichloropropane-d6	(84-123)
VDMC9	(TOL)	= Toluene-d8	(77-120)
VDMC10	(TDP)	= trans-1,3-Dichloropropene-d4	(80-128)
VDMC11	(HEX)	= 2-Hexanone-d5	(37-169)
VDMC12	(BRF)	= Bromoform-d	(76-135)
VDMC13	(TCA)	= 1,1,2,2-Tetrachloroethane-d2	(75-131)
VDMC14	(DCZ)	= 1,2-Dichlorobenzene-d4	(50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

SLCA

LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Marix Spike - EPA Sample No.: E0013

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5	0	5.9	118	61-145
Benzene	5	0	5.3	106	76-127
Trichloroethene	5	0	5.2	104	71-120
Toluene	5	0	5.3	106	76-125
Chlorobenzene	5	0	5.3	106	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5	6.2	124	5	14	61-145
Benzene	5	5.6	112	6	11	76-127
Trichloroethene	5	5.4	108	4	14	71-120
Toluene	5	5.6	112	6	13	76-125
Chlorobenzene	5	5.6	112	6	13	75-130

Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits.

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5A

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: EVBLK5A Date Analyzed: 03/31/2004

Lab File ID: E7985 Time Analyzed: 1339

Instrument ID: E-5973

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0010	4703.002	E7986	1414
02	E0011	4703.003	E7987	1447
03	E0013	4703.004	E7988	1519
04	E0013MS	4703.004MS	E7989	1601
05	E0013MSD	4703.004MSD	E7990	1642
06	E0014	4703.005	E7991	1716
07	E0015	4703.006	E7992	1749
08	E0016	4703.007	E7993	1823
09	E0018	4703.008	E7994	1856
10	VHBLK01	4703.001	E7995	1933
11				
12				
13				
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COMMENTS _____

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.002 Date Received: 03/31/2004

Lab File ID: E7986 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
E0010

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.002 Date Received: 03/31/2004

Lab File ID: E7986 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0010

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.002 Date Received: 03/31/2004

Lab File ID: E7986 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	8.23	0.56	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
E0011

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.003 Date Received: 03/31/2004

Lab File ID: E7987 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0011

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.003 Date Received: 03/31/2004

Lab File ID: E7987 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0011

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.003 Date Received: 03/31/2004

Lab File ID: E7987 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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02					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004 Date Received: 03/31/2004

Lab File ID: E7988 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

ILCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004 Date Received: 03/31/2004

Lab File ID: E7988 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0013

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004 Date Received: 03/31/2004

Lab File ID: E7988 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MS Date Received: 03/31/2004

Lab File ID: E7989 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	5.9	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	5.3	
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MS Date Received: 03/31/2004

Lab File ID: E7989 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	5.2	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.3	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.3	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MSD Date Received: 03/31/2004

Lab File ID: E7990 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	6.2	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	5.6	
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0013MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MSD Date Received: 03/31/2004

Lab File ID: E7990 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	5.4	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.6	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.6	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0014

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.005 Date Received: 03/31/2004

Lab File ID: E7991 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0014

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.005 Date Received: 03/31/2004

Lab File ID: E7991 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0014

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.005 Date Received: 03/31/2004

Lab File ID: E7991 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0015

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.006 Date Received: 03/31/2004

Lab File ID: E7992 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
E0015

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.006 Date Received: 03/31/2004

Lab File ID: E7992 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0015

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.006 Date Received: 03/31/2004

Lab File ID: E7992 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0016

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.007 Date Received: 03/31/2004

Lab File ID: E7993 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0016

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.007 Date Received: 03/31/2004

Lab File ID: E7993 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0016

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.007 Date Received: 03/31/2004

Lab File ID: E7993 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0018

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.008 Date Received: 03/31/2004

Lab File ID: E7994 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.35	J
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0018

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.008 Date Received: 03/31/2004

Lab File ID: E7994 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0018

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.008 Date Received: 03/31/2004

Lab File ID: E7994 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
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ILCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
VBLK5A

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: EVBLK5A Date Received: _____

Lab File ID: E7985 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK5A

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0C1C

Lab Sample ID: EVBLK5A Date Received: _____

Lab File ID: E7985 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK5A

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: EVBLK5A Date Received: _____

Lab File ID: E7985 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.001 Date Received: _____

Lab File ID: E7995 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.001 Date Received: _____

Lab File ID: E7995 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.001 Date Received: _____

Lab File ID: E7995 Date Analyzed: 03/31/2004

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.20 (MM) Length: 25 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
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2LCC

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client NO.: SDG No.: E0010

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK80	90	70	76	70	77	82	70	65
02	E0010	72	54	61	42	63	65	57	32
03	E0011	76	56	61	65	62	69	56	61
04	E0013	82	57	67	61	61	65	57	54
05	E0013MS	62	62	63	46	61	55	49	44
06	E0013MSD	91	81	83	63	84	82	67	71 *
07	E0014	71	52	61	33 *	53	58	49	38
08	E0015	107	77	87	62	80	87	76	58
09	E0018	72	49	56	48	51	59	52	55
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			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(10-110)
SDMC2	(BCE)	= bis-(2-Chloroethyl)ether-d8	(41-94)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(33-110)
SDMC4	(4MP)	= 4-Methylphenol-d8	(38-95)
SDMC5	(NBZ)	= Nitrobenzene-d5	(35-114)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(40-106)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(42-98)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(8-70)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2LCD

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client NO.: SDG No.: E0010

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK80	68	66	58	55	113	74	80	70	0
02	E0010	63	49	65	49 *	63	66	84	66	1
03	E0011	66	57	58	52	56	64	81	71	0
04	E0013	60 *	50	55	49 *	56	70	90	76	2
05	E0013MS	63	55	69	53	48 *	62	82	65	1
06	E0013MSD	81	73	69	66	60	72	88	70	1
07	E0014	67	58	49	54	46 *	70	77	65	2
08	E0015	72	78	76	71	70	74	99	77	0
09	E0018	66	50	46	50	55	64	79	73	0
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			QC LIMITS
SDMC9	(DMP)	= Dimethylphthalate-d6	(62-102)
SDMC10	(ACY)	= Acenaphthylene-d8	(49-98)
SDMC11	(4NP)	= 4-Nitrophenol-d4	(9-181)
SDMC12	(FLR)	= Fluorene-d10	(50-97)
SDMC13	(NMP)	= 4,6-Dinitro-methylphenol-d2	(53-153)
SDMC14	(ANC)	= Anthracene-d10	(55-116)
SDMC15	(PYR)	= Pyrene-d10	(47-114)
SDMC16	(BAP)	= Benzo(a)pyrene-d12	(54-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

3LCB
LOW CONCENTRATION WATER SEMIVOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Matrix Spike - EPA Sample No.: E0013

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
Phenol	80	0	41	51	12-110
2-Chlorophenol	80	0	46	58	27-123
N-Nitroso-di-n-prop.(1	20	0	16	80	41-116
4-Chloro-3-methylpheno	80	0	41	51	23-97
Acenaphthene	20	0	16	80	46-118
4-Nitrophenol	80	0	57	71	10-80
2,4-Dinitrotoluene	20	0	17	85	24-96
Pentachlorophenol	80	0	59	74	9-103
Pyrene	20	0	13	65	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	80	57	71	33	42	12-110
2-Chlorophenol	80	59	74	24	40	27-123
N-Nitroso-di-n-prop.(1	20	20	100	22	38	41-116
4-Chloro-3-methylpheno	80	56	70	31	42	23-97
Acenaphthene	20	21	105	27	31	46-118
4-Nitrophenol	80	63	79	11	50	10-80
2,4-Dinitrotoluene	20	18	90	6	38	24-96
Pentachlorophenol	80	70	88	17	50	9-103
Pyrene	20	14	70	7	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 18 outside limits

COMMENTS:

4LCB
LOW CONCENTRATION WATER
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK80

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038
Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010
Lab Sample ID: SVOB80 Date Extracted: 04/05/2004
Lab File ID: D8677 Date Analyzed: 04/13/2004
Instrument ID: D-5973 Time Analyzed: 1336

THIS METHOD BLANK APPLIES TO THE FOLLOWING ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0010	4703.002	D8678	04/13/2004
02	E0011	4703.003	D8679	04/13/2004
03	E0013	4703.004	D8680	04/13/2004
04	E0013MS	4703.004MS	D8681	04/13/2004
05	E0013MSD	4703.004MSD	D8682	04/13/2004
06	E0014	4703.005	D8683	04/13/2004
07	E0015	4703.006	D8684	04/13/2004
08	E0018	4703.008	D8685	04/13/2004
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COMMENTS:

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.002 Date Received: 03/31/2004

Lab File ID: D8678 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.002 Date Received: 03/31/2004

Lab File ID: D8678 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
281-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

E0010

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.002 Date Received: 03/31/2004

Lab File ID: D8678 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
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1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0011

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.003 Date Received: 03/31/2004

Lab File ID: D8679 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0011

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.003 Date Received: 03/31/2004

Lab File ID: D8679 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	7.6	
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

E0011

Lab Name: A4 SCIENTIFIC, INC. Contract: 68WC1038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.003 Date Received: 03/31/2004

Lab File ID: D8679 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0013

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004 Date Received: 03/31/2004

Lab File ID: D8680 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenapnthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004 Date Received: 03/31/2004

Lab File ID: D8680 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
281-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

E0013

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004 Date Received: 03/31/2004

Lab File ID: D8680 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	11.81	2.3	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0013MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MS Date Received: 03/31/2004

Lab File ID: D8681 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	41	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	46	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	16	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	41	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	16	

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MS Date Received: 03/31/2004

Lab File ID: D8681 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	57	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	17	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	59	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	13	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0013MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MSD Date Received: 03/31/2004

Lab File ID: D8682 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	57	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	59	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	20	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	56	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	21	

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0013MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.004MSD Date Received: 03/31/2004

Lab File ID: D8682 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	63	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	18	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	70	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	14	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
281-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0014

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.005 Date Received: 03/31/2004

Lab File ID: D8683 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0014

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.005 Date Received: 03/31/2004

Lab File ID: D8683 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	1.7	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

E0014

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.005 Date Received: 03/31/2004

Lab File ID: D8683 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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28					
29					
30					

ILCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0015

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.006 Date Received: 03/31/2004

Lab File ID: D8684 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0015

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.006 Date Received: 03/31/2004

Lab File ID: D8684 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	1.5	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

E0015

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.006 Date Received: 03/31/2004

Lab File ID: D8684 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
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09					
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11					
12					
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1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0016

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.008 Date Received: 03/31/2004

Lab File ID: D8685 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenapnthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0018

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.008 Date Received: 03/31/2004

Lab File ID: D8685 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

E0018

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: 4703.008 Date Received: 03/31/2004

Lab File ID: D8685 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
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1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK80

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: SVOB80 Date Received: _____

Lab File ID: D8677 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenapnthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

SBLK80

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: SVOB80 Date Received: _____

Lab File ID: D8677 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
281-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

ILCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

SBLK80

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Lab Sample ID: SVOB80 Date Received: _____

Lab File ID: D8677 Date Extracted: 04/05/2004

Sample Volume: 1000 (ML) Date Analyzed: 04/13/2004

Concentrated Extract Volume: 1000 (UL) Dilution Factor: 1.0

Injection Volume: 1.0 (UL)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	5.14	2.4	J
02		UNKNOWN	12.26	4.6	J
03		UNKNOWN	13.14	3.7	J
04		UNKNOWN	13.38	2.0	J
05					
06					
07					
08					
09					
10					
11					
12					
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2LCE
LOW CONCENTRATION WATER PESTICIDE SURROGATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

GC Column (1): RTX-PEST ID: 0.5 (MM) GC Column (2): RTX-PEST2 ID: 0.53 (MM)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK7O	87	86	101	90			0
02	PLCS3N	80	87	71	80			0
03	E0010	79	82	71	66			0
04	E0011	79	98	95	72			0
05	E0013	66	89	70	57			0
06	E0013MS	63	78	46	43			0
07	E0013MSD	75	92	81	66			0
08	E0014	122	104	104	98			0
09	E0015	85	76	77	75			0
10	E0018	73	82	101	82			0
11								
12								
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		QC LIMITS
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3LCD
LOW CONCENTRATION WATER PESTICIDE LAB CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS3N

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: PESL3N LCS Lot No.: N

LCS Aliquot: 1000 (UL) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Instrument ID (1): C-6890A GC Column (1): RTX-PEST ID: 0.53 (MM)

COMPOUND	AMOUNT ADDED (NG)	AMOUNT RECOVERED (NG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	94	94	50-120
Heptachlor epoxide	100	76	76	50-150
Dieldrin	200	170	85	30-130
4,4'-DDE	200	120	60	50-150
Endrin	200	190	95	50-120
Endosulfan sulfate	200	180	90	50-120
gamma-Chlordane	100	72	72	30-130

Instrument ID (2): C-6890B GC Column (2): RTX-PEST2 ID: 0.53 (MM) 4/19/04

COMPOUND	AMOUNT ADDED (NG)	AMOUNT RECOVERED (NG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	100	100	50-120
Heptachlor epoxide	100	93	93	50-150
Dieldrin	200	180	90	30-130
4,4'-DDE	200	140	70	50-150
Endrin	200	230	115	50-120
Endosulfan sulfate	200	180	90	50-120
gamma-Chlordane	100	74	74	30-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total

LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Marix Spike - EPA Sample No.: E0013

Instrument ID : C-6890A GC Column : RTX-PEST ID: 0.53 (MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0	0.096	96	56-123
Heptachlor	0.10	0	7.2	7200 *	40-131
Aldrin	0.10	0	0.091	91	40-120
Dieldrin	0.20	0	0.19	95	52-126
Endrin	0.20	0	0.21	105	56-121
4,4'-DDT	0.20	0	0.19	95	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0.12	120	22 *	15	56-123
Heptachlor	0.10	4.6	4600 *	44 *	20	40-131
Aldrin	0.10	0.092	92	1	22	40-120
Dieldrin	0.20	0.23	115	19 *	18	52-126
Endrin	0.20	0.25	125 *	17	21	56-121
4,4'-DDT	0.20	0.23	115	19	27	38-127

Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits.

RPD: 3 out of 6 outside limits
Spike Recovery: 3 out of 12 outside limits

COMMENTS:

LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: SDG No.: E0010

Marix Spike - EPA Sample No.: E0013

Instrument ID : C-6890B GC Column : RTX-PEST2 ID: 0.53 (MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0	0.10	100	56-123
Heptachlor	0.10	0	0.090	90	40-131
Aldrin	0.10	0	0.073	73	40-120
Dieldrin	0.20	0	0.21	105	52-126
Endrin	0.20	0	0.26	130 *	56-121
4,4'-DDT	0.20	0	0.21	105	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0.12	120	18 *	15	56-123
Heptachlor	0.10	0.11	110	20	20	40-131
Aldrin	0.10	0.093	93	24 *	22	40-120
Dieldrin	0.20	0.24	120	13	18	52-126
Endrin	0.20	0.30	150 *	14	21	56-121
4,4'-DDT	0.20	0.25	125	17	27	38-127

Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits.

RPD: 2 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS:

4LCC
LOW CONCENTRATION WATER
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK70

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Date Extracted: 04/05/2004 Lab Sample ID (1): PESB70

Date Analyzed (1): 04/07/2004 Date Analyzed (2): 04/08/2004

Time Analyzed (1): 2336 Time Analyzed (2): 0009

Instrument ID (1): C-6890A Instrument ID (2): C-6890B

GC Column (1): RTX-PEST ID: 0.53 (MM) GC Column (2): RTX-PEST2 ID: 0.53 (MM)

Sulfur Cleanup: (Y/N) N Extraction (Sepf/Cont): SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E0010	4703.002	04/08/2004	04/08/2004
02	E0011	4703.003	04/08/2004	04/08/2004
03	E0013	4703.004	04/08/2004	04/08/2004
04	E0013MS	4703.004MS	04/08/2004	04/08/2004
05	E0013MSD	4703.004MSD	04/08/2004	04/08/2004
06	E0014	4703.005	04/08/2004	04/08/2004
07	E0015	4703.006	04/08/2004	04/08/2004
08	E0018	4703.008	04/08/2004	04/08/2004
09	PLCS3N	PESL3N	04/08/2004	04/08/2004
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COMMENTS: _____

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.002 Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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EPA SAMPLE NO.

E0011

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.003 Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS

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EPA SAMPLE NO.

E0013

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.004 Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS

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EPA SAMPLE NO.

E0013MS(1)

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.004MS Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.096	
76-44-8	Heptachlor	7.2	EPT
309-00-2	Aldrin	0.091	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.19	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.21	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.19	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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EPA SAMPLE NO.

E0013MS(2)

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.004MS Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.10	
76-44-8	Heptachlor	0.090	P
309-00-2	Aldrin	0.073	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.21	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.26	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.21	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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EPA SAMPLE NO.

E0013MSD(1)

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.004MSD Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.12	
76-44-8	Heptachlor	4.6	EPJ
309-00-2	Aldrin	0.092	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.23	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.25	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.23	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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EPA SAMPLE NO.

E0013MSD(2.

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.004MSD Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.12	
76-44-8	Heptachlor	0.11	PJ
309-00-2	Aldrin	0.093	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.24	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.30	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.25	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS

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EPA SAMPLE NO.

E0014

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.005 Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS

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EPA SAMPLE NO.

E0015

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.006 Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS

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EPA SAMPLE NO.

E0018

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: 4703.008 Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/08/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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EPA SAMPLE NO.

PBLK70

Lab Name: A4 SCIENTIFIC, INC. Contract: 68W01038

Lab Code: A4 Case No.: 32724 Client No.: _____ SDG No.: E0010

Lab Sample ID: PESB70 Date Received: 03/31/2004

Sample Volume: 1000 (ML) Date Extracted: 04/05/2004

Concentrated Extract Volume: 2000 (UL) Date Analyzed: 04/07/2004

Injection Volume: 1.0 (UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N (UL) Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0010 CERCLIS No: ILD980497721

Case No: 32724 Site Name/Location: CARLSTRAM LANDFILL

Contractor of EPA Lab: A4 SCIENTIFIC Data User: EPA

No. of Samples: 7 Date Sampled or Date Received: 4-21-04

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 7 No. of samples received: 7

Received by: Ena M. Dixon/ESAT Date: 4-21-04

Received by LSSS: Ena M. Dixon/ESAT Date: 4-21-04

Review started: 5-6-04 Reviewer Signature: Stephanie Tebo

Total time spent on review: 11 Date review completed: 5-12-04

Copied by: Ena M. Dixon/ESAT Date: 5-13-04

Mailed to user by: Ena M. Dixon/ESAT Date: 5-13-04

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: June 3, 2004

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Carlstrom Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
32841	Shealy	2	E0001	Water

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

JUN 0 7 2004

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

JUN 0 3 2004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on May 26, 2004

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Carlstrom Landfill (IL)

CASE NUMBER: 32841 SDG NUMBER: E0001

Number and Type of Samples: 2 Waters

Sample Numbers: E0001, E0002

Laboratory: Shealy Hrs. for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number : 32841 SDG Number: E0001
S Name: CARLSTROM LANDFILL (IL) Laboratory: SHEALY

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Two (2) preserved water samples, numbered *E0001* and *E0002*, were collected on *May 4, 2004*. The lab received the samples on *May 6, 2004* in good condition. One (1) sample, E0001, was analyzed for the full list of organic analytes. One (1) sample, E0002, was analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLC03.2*.

Reviewed By: Allison Harvey/Alion - ESAT
Date: June 2, 2004

Case Number : 32841
S' ' Name: CARLSTROM LANDFILL (IL)

SDG Number: E0001
Laboratory: SHEALY

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene
E0001, E0001MS, E0001MSD, E0002, VBLK07

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ" unless otherwise qualified for other problems.

Bromomethane, Methyl Acetate
E0001, E0001MS, E0001MSD, E0002, VBLK07

The following volatile samples are associated with a continuing calibration relative response factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Methyl Acetate
E0001, E0001MS, E0001MSD, E0002, VBLK07

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

N-Nitroso-di-n-propylamine
E0001, E0001MS, E0001MSD, SBLK16

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Di-n-octylphthalate
E0001, E0001MS, E0001MSD, SBLK16

Reviewed By: Allison Harvey/Alion - ESAT
Date: June 2, 2004

Case Number : 32841 SDG Number: E0001
S' e Name: CARLSTROM LANDFILL (IL) Laboratory: SHEALY

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Acetone
E0001

Methylene Chloride
E0001MS, E0001MSD, E0002

Tetrachloroethene
E0001, E0001MS, E0002

Toluene
VHBLK14

The following volatile samples have analyte concentrations reported at or above the CRQL. The ·ssociated method blank concentration is less than the concentration criteria. Hits and non-detects : not flagged.

Toluene
E0001MS, E0001MSD

The following semivolatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged unless otherwise qualified for another problem.

Di-n-butylphthalate
E0001, E0001MS, E0001MSD

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile method blanks have DMC recovery outside criteria. Hits are qualified "J" and non-detects are flagged "UJ".

VBLK15
Dibromochloromethane, 1,2-Dibromoethane, Bromoform

The previous volatile method blank, VBLK15, has DMC recovery outside criteria. Hits in the

Case Number : 32841 SDG Number: E0001
Site Name: CARLSTROM LANDFILL (IL) Laboratory: SHEALY

associated samples are qualified "J" and non-detects are flagged "UJ".

VHBLK14
Dibromochloromethane, 1,2-Dibromoethane, Bromoform

The following volatile samples have one or more DMC recovery values below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ".

E0002
trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, 4-Methyl-2-pentanone, 2-Hexanone

The following volatile samples have DMC recoveries outside the expanded lower criteria. Hits are qualified "J" and non-detects are qualified "R".

E0001
4-Methyl-2-pentanone, 2-Hexanone

The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Hits are qualified "J" and non-detects are qualified "UJ".

E0001MS, E0001MSD
Caprolactam, 1,1'-Biphenyl, Dimethylphthalate, Diethylphthalate, Di-n-butylphthalate, Butylbenzylphthalate, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects found. See Section 12 for explanation of semivolatile recoveries.

6B. LABORATORY CONTROL SAMPLE

No defects found.

7. FIELD BLANK AND FIELD DUPLICATE

Sample *E0002* is a trip blank. Sample E0002 contained Chloromethane at 0.083 µg/L and Trichloroethene at 0.092 µg/L.

No samples were identified as either field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No defects found.

Reviewed By: Allison Harvey/Alion - ESAT
Date: June 2, 2004

Case Number : 32841 SDG Number: E0001
Site Name: CARLSTROM LANDFILL (IL) Laboratory: SHEALY

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0001
Chloromethane

E0001MS
Chloromethane, Chloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, trans-1,2-Dichloroethene, Chloroform, Cyclohexane, 1,2-Dichloroethane, Bromodichloromethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene

E0001MSD
Chloromethane, Bromomethane, Chloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, trans-1,2-Dichloroethene, Chloroform, Cyclohexane, 1,2-Dichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene

E0002
Chloromethane, Trichloroethene

VBLK07
Acetone, Carbon Disulfide, Methylene Chloride, Toluene, Tetrachloroethene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

VBLK15
Acetone, Toluene

VHBLK14
Methylene Chloride

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

SBLK16
Di-n-butylphthalate

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All

Case Number : 32841 SDG Number: E0001
S' e Name: CARLSTROM LANDFILL (IL) Laboratory: SHEALY

results below the CRQL are qualified "J".

E0001MS
Endrin ketone

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are qualified "J".

E0001MS
gamma-BHC (Lindane), Heptachlor, Endrin ketone

E0001MSD
gamma-BHC (Lindane), Heptachlor, Endrin

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

erification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0001, E0001MS, E0001MSD, E0002, VBLK07, VBLK15, VHBLK14

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0001, E0001MS, E0001MSD, SBLK16

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0001, E0001MS, E0001MSD, PBLK17

Thirteen (13) out of the twenty-one (21) containers for sample E0001 and both containers for sample E0002 arrived at the laboratory with an elevated temperature of 8.8 °C.

One volatile method blank reported a DMC recovery outside the acceptance range. Per SOW OLC03.2 (June 2001, p. 22), the use of this blank is being noted for Contract Laboratory Program Project Officer (CLP PO) action.

Reviewed By: Allison Harvey/Alion - ESAT
Date: June 2, 2004

Case Number : 32841 **SDG Number:** E0001
Site Name: CARLSTROM LANDFILL (IL) **Laboratory:** SHEALY

The laboratory noted in their SDG Narrative that "due to lab oversight, the matrix spiking solution was not added to the E0001MS/MSD [*BNA*] samples. Per instruction from the Region, no re-extraction was performed due to the fact that the holding time had expired." All spiking compounds therefore reported zero percent recoveries but results in the unspiked sample were not qualified. No copies of a phone log or e-mail verifying receipt of instructions from the Region were provided with this data package.

Reviewed By: Allison Harvey/Alion - ESAT
Date: June 2, 2004

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0001

Sample Type: Spike Original
Lab ID: SHEALY
Case No.: 32841
SDG No.: E0001

Location: G205
Matrix/Level: Water/
File Name: E0001

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*
	UNKNOWN	2.88	0.69	J

*Q: Laboratory Qualifier

Low Concentration Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0001

Sample Type: Spike Original
Lab ID: SHEALY
Case No.: 32841
SDG No.: E0001

Location: G205
Matrix/Level: Water/
File Name: E0001

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*

*Q: Laboratory Qualifier

Low Concentration Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: SBLK16

Sample Type: Method Blank
Lab ID: SHEALY
Case No.: 32841
SDG No.: E0001

Location:
Matrix/Level: Water/
File Name: E0001

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*
	UNKNOWN	10.35	2.7	J
141048	HEXANEDIOIC ACID, BIS(2-METHYLPROPYL) ES	11.95	9.6	NJ
84695	1,2-BENZENEDICARBOXYLIC ACID, BIS(2-METH	13.13	4.0	NJ

*Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: VBLK15

Sample Type: Method Blank
Lab ID: SHEALY
Case No.: 32841
SDG No.: E0001

Location:
Matrix/Level: Water/
File Name: E0001

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*
	UNKNOWN	6.17	1.5	J

*Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: VHBLK14

Sample Type: Storage Blank
Lab ID: SHEALY
Case No.: 32841
SDG No.: E0001

Location:
Matrix/Level: Water/
File Name: E0001

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*

Q: Laboratory Qualifier

Analytical Results (Qualified Data)

Case #: 32841
Site :
Lab
Reviewer :
ate .

SDG : E0001
CARLSTROM LANDFILL
SHEALY

Number of Soil Samples 0
Number of Water Samples 2

Sample Number	E0001		E0001MS		E0001MSD		E0002		VBLK07	
Sampling Location	G205		G205		G205		TRIP BLANK-SHEALY			
Matrix :	Water		Water		Water		Water		Water	
Units .	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	5/4/2004		5/4/2004		5/4/2004		5/4/2004			
Time Sampled	10:50		10:50		10:50		10:50			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.16	J	0.30	J	0.12	J	0.083	J	0.50	U
Vinyl Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	UJ	0.50	UJ	0.25	J	0.50	UJ	0.50	UJ
Chloroethane	0.50	U	0.078	J	0.088	J	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	4.1		3.9		0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.11	J	0.091	J	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	2.7	J
Carbon Disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.084	J
Methyl Acetate	0.50	R	0.46	J	0.70	J	0.50	R	0.50	R
Methylene Chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.18	J
trans-1,2-Dichloroethene	0.50	U	0.092	J	0.073	J	0.50	UJ	0.50	U
Methyl tert-Butyl Ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	UJ	0.50	U
butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.39	J	0.37	J	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.19	J	0.20	J	0.50	U	0.50	U
Carbon Tetrachloride	0.50	U	0.71		0.69		0.50	U	0.50	U
Benzene	0.50	U	5.6		5.0		0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.27	J	0.032	J	0.50	U	0.50	U
Trichloroethene	0.50	U	5.4		5.2		0.092	J	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.85		0.75		0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.093	J	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.12	J	0.12	J	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	R	5.0	U	5.0	U	5.0	UJ	5.0	U
Toluene	0.50	U	5.4		5.0		0.50	U	0.069	J
trans-1,3-Dichloropropene	0.50	U	0.25	J	0.23	J	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 32841 SDG . E0001
Site : CARLSTROM LANDFILL
Lab. : SHEALY
Reviewer :
ate :

Sample Number :	E0001		E0001MS		E0001MSD		E0002		VBLK07	
Sampling Location .	G205		G205		G205		TRIP BLANK-SHEALY			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004		5/4/2004			
Time Sampled :	10:50		10:50		10:50		10:50			
%Moisture .	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.21	J
2-Hexanone	5.0	R	5.0	U	5.0	U	5.0	UJ	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	5.4		5.0		0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Xylenes (total)	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.12	J
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.17	J
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.18	J
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2,4-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.16	J
1,2,3-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ

Analytical Results (Qualified Data)

Case # 32841 SDG : E0001
Site : CARLSTROM LANDFILL
Lab : SHEALY
Reviewer :
ate :

Sample Number :	VBLK15		VHBLK14							
Sampling Location :										
Matrix	Water		Water							
Units :	ug/L		ug/L							
Date Sampled										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U						
Chloromethane	0.50	U	0.50	U						
Vinyl Chloride	0.50	U	0.50	U						
Bromomethane	0.50	U	0.50	U						
Chloroethane	0.50	U	0.50	U						
Trichlorofluoromethane	0.50	U	0.50	U						
1,1-Dichloroethene	0.50	U	0.50	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U						
Acetone	2.9	J	5.0	U						
Carbon Disulfide	0.50	U	0.50	U						
Methyl Acetate	0.50	U	0.50	U						
Methylene Chloride	0.50	U	0.46	J						
trans-1,2-Dichloroethene	0.50	U	0.50	U						
Methyl tert-Butyl Ether	0.50	U	0.50	U						
1,1-Dichloroethane	0.50	U	0.50	U						
-1,2-Dichloroethene	0.50	U	0.50	U						
utanone	5.0	U	5.0	U						
Bromochloromethane	0.50	U	0.50	U						
Chloroform	0.50	U	0.50	U						
1,1,1-Trichloroethane	0.50	U	0.50	U						
Cyclohexane	2.2		0.50	U						
Carbon Tetrachloride	0.50	U	0.50	U						
Benzene	0.50	U	0.50	U						
1,2-Dichloroethane	0.50	U	0.50	U						
Trichloroethene	0.50	U	0.50	U						
Methylcyclohexane	0.50	U	0.50	U						
1,2-Dichloropropane	0.50	U	0.50	U						
Bromodichloromethane	0.50	U	0.50	U						
cis-1,3-Dichloropropene	0.50	U	0.50	U						
4-Methyl-2-pentanone	5.0	U	5.0	U						
Toluene	0.069	J	0.50	U						
trans-1,3-Dichloropropene	0.50	U	0.50	U						
1,1,2-Trichloroethane	0.50	U	0.50	U						

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0001
Site : CARLSTROM LANDFILL
Lab. : SHEALY
Reviewer :
Date :

Sample Number :	VBLK15		VHBLK14							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	0.50	U						
2-Hexanone	5.0	U	5.0	U						
Dibromochloromethane	0.50	UJ	0.50	UJ						
1,2-Dibromoethane	0.50	UJ	0.50	UJ						
Chlorobenzene	0.50	U	0.50	U						
Ethylbenzene	0.50	U	0.50	U						
Xylenes (total)	0.50	U	0.50	U						
Styrene	0.50	U	0.50	U						
Bromoform	1.8	J	1.9	J						
Isopropylbenzene	0.50	U	0.50	U						
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U						
1,3-Dichlorobenzene	0.50	U	0.50	U						
1,4-Dichlorobenzene	0.50	U	0.50	U						
1,2-Dichlorobenzene	0.50	U	0.50	U						
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U						
1,2,4-Trichlorobenzene	0.50	U	0.50	U						
1,2,3-Trichlorobenzene	0.50	U	0.50	U						

Analytical Results (Qualified Data)

Case # 32841 | SDG : E0001
Site | CARLSTROM LANDFILL | Number of Soil Samples 0
Lab. | SHEALY | Number of Water Samples 1
Reviewer :
ate :

Sample Number :	E0001		E0001MS		E0001MSD		SBLK16			
Sampling Location :	G205		G205		G205					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	5/4/2004		5/4/2004		5/4/2004					
Time Sampled :	10:50		10:50		10:50					
%Moisture :	N/A		N/A		N/A		N/A			
pH										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U		
Phenol	5.0	U	5.0	U	5.0	U	5.0	U		
bis-(2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U		
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U		
2,2'-oxybis(1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U		
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U		
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U		
N-Nitroso-di-n-propylamine	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ		
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U		
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U		
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U		
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U		
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U		
is(2-Chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U		
-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
aphthalene	5.0	U	5.0	U	5.0	U	5.0	U		
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U		
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U		
Caprolactam	5.0	U	5.0	UJ	5.0	UJ	5.0	U		
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U		
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U		
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U		
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U		
1,1'-Biphenyl	5.0	U	5.0	UJ	5.0	UJ	5.0	U		
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U		
2-Nitroaniline	20	U	20	U	20	U	20	U		
Dimethylphthalate	5.0	U	5.0	UJ	5.0	UJ	5.0	U		
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U		
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U		
3-Nitroaniline	20	U	20	U	20	U	20	U		
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U		

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0001
Site : CARLSTROM LANDFILL
Lab. : SHEALY
Reviewer :
Date :

Sample Number :	E0001		E0001MS		E0001MSD		SBLK16			
Sampling Location :	G205		G205		G205					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	5/4/2004		5/4/2004		5/4/2004					
Time Sampled :	10:50		10:50		10:50					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U		
4-Nitrophenol	20	U	20	U	20	U	20	U		
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U		
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U		
Diethylphthalate	5.0	U	5.0	UJ	5.0	UJ	5.0	U		
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U		
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U		
4-Nitroaniline	20	U	20	U	20	U	20	U		
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U		
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U		
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U		
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U		
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U		
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U		
Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U		
nenanthrene	5.0	U	5.0	U	5.0	U	5.0	U		
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U		
Di-n-butylphthalate	5.0	U	5.0	UJ	5.0	UJ	3.7	J		
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U		
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U		
Butylbenzylphthalate	5.0	U	5.0	UJ	5.0	UJ	5.0	U		
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U		
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U		
bis(2-Ethylhexyl)phthalate	5.0	U	5.0	UJ	5.0	UJ	5.0	U		
Di-n-octylphthalate	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ		
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U		
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U		
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U		
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U		

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0001
Site : CARLSTROM LANDFILL
Lab SHEALY
Reviewer :
Date :

Number of Soil Samples 0
Number of Water Samples 1

Sample Number :	E0001		E0001MS		E0001MSD		PBLK17			
Sampling Location :	G205		G205		G205					
Matrix :	Water		Water		Water		Water			
Units	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	5/4/2004		5/4/2004		5/4/2004					
Time Sampled :	10:50		10:50		10:50					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	U		
beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U		
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U		
gamma-BHC (Lindane)	0.010	U	0.068	J	0.074	J	0.010	U		
Heptachlor	0.010	U	0.067	J	0.075	J	0.010	U		
Aldrin	0.010	U	0.066		0.079		0.010	U		
Heptachlor epoxide	0.010	U	0.010	U	0.010	U	0.010	U		
Endosulfan I	0.010	U	0.010	U	0.010	U	0.010	U		
Dieldrin	0.020	U	0.17		0.18		0.020	U		
4,4'-DDE	0.020	U	0.020	U	0.020	U	0.020	U		
Endrin	0.020	U	0.17		0.18	J	0.020	U		
Endosulfan II	0.020	U	0.020	U	0.020	U	0.020	U		
4,4'-DDD	0.020	U	0.020	U	0.020	U	0.020	U		
Endosulfan sulfate	0.020	U	0.020	U	0.020	U	0.020	U		
4,4'-DDT	0.020	U	0.19		0.19		0.020	U		
Methoxychlor	0.10	U	0.10	U	0.10	U	0.10	U		
Endrin ketone	0.020	U	0.011	J	0.020	U	0.020	U		
Endrin aldehyde	0.020	U	0.020	U	0.020	U	0.020	U		
alpha-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U		
gamma-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U		
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U		
Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U		
Aroclor-1232	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1248	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U		
Aroclor-1260	0.20	U	0.20	U	0.20	U	0.20	U		

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-26-04

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: CARLSTROM LANDFILL (IL)

CASE NUMBER: 32841 SDG NUMBER: E0001

Number and Type of Samples: 2 (WATER)

Sample Numbers: E0001-2

Laboratory: SHEALY Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SM-5J

MAY 2 6 2004

Contract Laboratory Program

Sample Delivery Group (SDG)
Cover Sheet

SDG Number E0001

Laboratory Name Shealy Environmental Laboratory Code CHEAI-Y

Contract No. 68 W01040 Case No. 32841

Analysis Price $430.00 SDG Turnaround 21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0001	7)	13)	19)
2) E0002	8)	14)	20)
3)	9)	15)	21)
4)	10)	16)	22)
5)	11)	17) Dt 5/7/04	23)
6)	12)	18)	24)

E0001
First Sample in SDG

E0002
Last Sample in SDG

5/6/04
First Sample Receipt Date

5/6/04
Last Sample Receipt Date

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature [signature] Date 5/7/04

Version 2.0

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 32841
DAS No:
SDG No:
L

Date Shipped:	5/5/2004
Carrier Name:	UPS
Airbill:	1z6215892210023572
Shipped to:	Shealy Environmental 106 Vantage Point Drive Cayce SC 29033 (803) 791-9700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	5/4/04 2020		
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No: 68 W07040
Unit Price: $430.00
Transfer To:
Lab Contract No:
Unit Price: Rt 5/7/04

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0001	Ground Water/ Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-217501 (HCL), 5-217502 (HCL), 5-217503 (HCL), 5-217504 (HCL), 5-217505 (HCL), 5-217506 (HCL), 5-217507 (HCL), 5-217508 (HCL), 5-217509 (HCL), 5-217510 (HCL), 5-217511 (HCL), 5-217512 (HCL), 5-217513 (HCL), 5-217514 (HCL), 5-217515 (HCL), 5-217522 (Ice Only), 5-217523 (Ice Only), 5-217524 (Ice Only), 5-217525 (Ice Only), 5-217526 (Ice Only), 5-217527 (Ice Only) (21)	G205	S: 5/4/2004	10:50	ME0001	
E0002	Ground Water/ Mark Wagner	L/G	VOA (21)	5-217528 (HCL), 5-217529 (HCL) (2)	Trip Blank-Shealy	S: 5/4/2004	10:50		

SDG E0001 Final sample

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0001		5.4, 5.5	27986, 27987

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact? ___ Shipment Iced? ___

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

TR Number 5-433491573-050404-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr. Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 32841
DAS No:
SDG No: E0001

L

Date Shipped:	5/5/2004
Carrier Name:	UPS
Airbill:	1z6215892210023572
Shipped to:	Shealy Environmental 106 Vantage Point Drive Cayce SC 29033 (803) 791-9700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[illegible]	5/6/04 2020		
2			
3			
4		M Shealy [illegible]	5/6/04 0915

Sampler Signature: [illegible]

For Lab Use Only

Lab Contract No: 68W09040
Unit Price: $[illegible]
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0001	Ground Water/ Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-217501 (HCL), 5-217502 (HCL), 5-217503 (HCL), 5-217504 (HCL), 5-217505 (HCL), 5-217506 (HCL), 5-217507 (HCL), 5-217508 (HCL), 5-217509 (HCL), 5-217510 (HCL), 5-217511 (HCL), 5-217512 (HCL), 5-217513 (HCL), 5-217514 (HCL), 5-217515 (HCL), 5-217522 (Ice Only), 5-217523 (Ice Only), 5-217524 (Ice Only), 5-217525 (Ice Only), 5-217526 (Ice Only), 5-217527 (Ice Only) (21)	G205	S: 5/4/2004	10:50	ME0001	OK
E0002	Ground Water/ Mark Wagner	L/G	VOA (21)	5-217528 (HCL), 5-217529 (HCL) (2)	Trip Blank-Shealy	S: 5/4/2004	10:50		

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: E0001	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.4, 8.8	Chain of Custody Seal Number: 27986, 27987
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

TR Number: 5-433491573-050404-0001

PR provides prelim. results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

Shealy Environmental Services, Inc.
Contract Number: 68W01040
Date: 05/25/2004

MAY 2 6 2004

SDG Narrative
Case 32841
SDG E0001

EPA Sample Numbers

EPA Sample Number	Volatile Fraction	Dilution/ Reanalysis	BNA Fraction	Dilution/ Reanalysis	PEST Fraction	Dilution/ Reanalysis	pH of volatile samples
E0001	Yes	No	Yes	No	Yes	No	<2
E0001MS	Yes	No	Yes	No	Yes	No	<2
E0001MSD	Yes	No	Yes	No	Yes	No	<2
E0002	Yes	No	No	No	No	No	<2

Columns	VOC RTX-624, 40m x 0.18mm x 1.0um VOC DB-624, 20m x 0.18mm x 1.0um SVOC DB-5MS 30m x 0.25mm x 0.25um Pesticides #1 RTXCLP2 30m x 0.25mm x 0.25um Pesticides #2 RTXCLP 30m x 0.25mm x 0.33um
Trap	VOCARB 3000, 17 cm of packing material OI TRAP #10

VOA Equation	Concentration = Amt * DF * 25/Vo Where Amt is the on-column amount (ug/L) DF is the dilution factor. Vo is the purge volume (25 mL).
BNA/PEST Equation	Concentration = Amt * DF * Vt/Vo Where Amt is the on-column amount (ng/uL) (ng for PEST) DF is the dilution factor Vt is the volume of the extract (uL), Vo is the volume of the sample (mL)

VOA Fraction

The peak eluting at ~5.3 min on MSD8 and ~3.8 min on MSD9 in all analyses is pentafluorobenzene. This is an internal standard compound that is not being used for quantitation. This compound is not being identified as a TIC.

The DMC Bromoform-d was breaking down in the method blank and storage blanks analyzed on the instrument MSD9. All the blanks and samples analysis performed on instrument MSD9 show trace amount of bromoform. The recovery of bromoform-d in the method blank analyzed on May 15 was low and outside acceptance limits. The lab was unable to remedy this problem before performing analysis.

BNA Fraction

Manual integration was performed on caprolactam for initial calibration and continuing calibration standards due to incorrect auto integration.

Due to lab oversight, the matrix spiking solution was not added to the E0001MS/MSD samples. Instead, the DMC spiking solution was added twice. Per instruction from the Region, no re-extraction was performed due to the fact that the holding time had expired.

PEST Fraction

None

Sample Receiving

The cooler temperatures were 5.4 and 8.8°C.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Robert Zhu
Director of Organics 5/25/09

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK07	90	92	80	110	102	102	112
02	E0002	68	76	64*	96	92	88	100
03	E0001	88	94	78	116	110	108	108
04	E0001MS	86	86	96	118	108	108	118
05	E0001MSD	82	82	92	114	100	102	106
06	VBLK15	114	114	82	86	100	102	104
07	VHBLK14	106	112	82	88	104	108	112
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

			QC LIMITS
VDMC1	(VCL)	= Vinyl Chloride-d3	(49-138)
VDMC2	(CLA)	= Chloroethane-d5	(60-126)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(65-130)
VDMC4	(BUT)	= 2-Butanone-d5	(42-171)
VDMC5	(CLF)	= Chloroform-d	(80-123)
VDMC6	(DCA)	= 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN)	= Benzene-d6	(78-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

==	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (BRF) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK07	108	108	102	68	90	96	122	0
02	E0002	96	94	92	28*	84	90	112	2
03	E0001	108	104	100	15*	102	100	126	1
04	E0001MS	118	110	118	70	104	106	130	0
05	E0001MSD	104	100	106	68	98	94	126	0
06	VBLK15	88	104	96	82	70*	98	100	1
07	VHBLK14	96	110	104	86	82	104	110	0
08									
09									
10									
11									
12									
13									
14									
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			QC LIMITS
VDMC8	(DPA)	= 1,2-Dichloropropane-d6	(84-123)
VDMC9	(TOL)	= Toluene-d8	(77-120)
VDMC10	(TDP)	= trans-1,3-Dichloropropene-d4	(80-128)
VDMC11	(HEX)	= 2-Hexanone-d5	(37-169)
VDMC12	(BRF)	= Bromoform-d	(76-135)
VDMC13	(TCA)	= 1,1,2,2-Tetrachloroethane-d2	(75-131)
VDMC14	(DCZ)	= 1,2-Dichlorobenzene-d4	(50-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits

3LCA
LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Matrix Spike - EPA Sample No.: E0001

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5.0	0.00	4.1	82	61-145
Benzene	5.0	0.00	5.6	112	76-127
Trichloroethene	5.0	0.00	5.4	108	71-120
Toluene	5.0	0.00	5.4	108	76-125
Chlorobenzene	5.0	0.00	5.4	108	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5.0	3.9	78	5	14	61-145
Benzene	5.0	5.0	100	11	11	76-127
Trichloroethene	5.0	5.2	104	4	14	71-120
Toluene	5.0	5.0	100	8	13	76-125
Chlorobenzene	5.0	5.0	100	8	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK07

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: BLK05071 Date Analyzed: 05/07/2004

Lab File ID: BLK05071 Time Analyzed: 0711

Instrument ID: MSD8

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0002	FE06007-002	E0600702	1531
02	E0001	FE06007-001	E0600701	1554
03	E0001MS	FE06007-001	E0600701MS	1616
04	E0001MSD	FE06007-001	E0600701MD	1639
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COMMENTS:

FORM IV LCV OLC03.2

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK15

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: MB05151 Date Analyzed: 05/15/2004

Lab File ID: A2432 Time Analyzed: 1145

Instrument ID: MSD9

GC Column: DB-624 ID: 0.18(MM) Length: 20.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK14	FE06007-003	A2438	1443
02				
03				
04				
05				
06				
07				
08				
09				
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COMMENTS:

FORM IV LCV

OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: E0600701 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.16	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	50 ~~2.4~~	JB U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

6-10-04

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: E0600701 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50 ~~0.098~~	JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM I LCV-2 OLC03.2

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0001

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: E0600701 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	2.88	0.69	J
02					
03					
04					
05					
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ILCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MS

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: E0600701MS Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.30	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.078	J
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.1	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.11	J
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.46	J
75-09-2	Methylene Chloride	0.50 ~~0.10~~	JB
156-60-5	trans-1,2-Dichloroethene	0.092	J
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.39	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.19	J
56-23-5	Carbon Tetrachloride	0.71	
71-43-2	Benzene	5.6	
107-06-2	1,2-Dichloroethane	0.27	J

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0C01MS

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: E0600701MS Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	5.4	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.85	
75-27-4	Bromodichloromethane	0.093	J
10061-01-5	cis-1,3-Dichloropropene	0.12	J
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.4	B
10061-02-6	trans-1,3-Dichloropropene	0.25	J
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50 ~~0.096~~	JBU
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.4	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

ILCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MSD

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: E0600701MD Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.12	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.25	J
75-00-3	Chloroethane	0.088	J
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	3.9	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.091	J
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.70	
75-09-2	Methylene Chloride	0.50 ~~0.095~~	JBU
156-60-5	trans-1,2-Dichloroethene	0.073	J
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.37	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.20	J
56-23-5	Carbon Tetrachloride	0.69	
71-43-2	Benzene	5.0	
107-06-2	1,2-Dichloroethane	0.032	J

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MSD

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: E0600701MD Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	5.2	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.75	
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.12	J
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	B
10061-02-6	trans-1,3-Dichloropropene	0.23	J
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.0	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0002

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-002 Date Received: 05/06/2004

Lab File ID: E0600702 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.083	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.bc ~~0.099~~	JB U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

ILCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0002

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-002 Date Received: 05/06/2004

Lab File ID: E0600702 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.092	J
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.60 ~~0.14~~	JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM I LCV-2 OLC03.2

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EC002

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-002 Date Received: 05/06/2004

Lab File ID: E0600702 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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03					
04					
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06					
07					
08					
09					
10					
11					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK07

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: BLK05071 Date Received: _____

Lab File ID: BLK05071 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	2.7	J
75-15-0	Carbon Disulfide	0.084	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.18	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK07

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: BLK05071 Date Received: _____

Lab File ID: BLK05071 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.069	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.21	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.12	J
106-46-7	1,4-Dichlorobenzene	0.17	J
95-50-1	1,2-Dichlorobenzene	0.18	J
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.16	J
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK07

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: BLK05071 Date Received: _____

Lab File ID: BLK05071 Date Analyzed: 05/07/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.18(MM) Length: 40.0(M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
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06					
07					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK15

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: MB05151 Date Received: _____

Lab File ID: A2432 Date Analyzed: 05/15/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.18(MM) Length: 20.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	2.9	J
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	2.2	
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK15

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: MB05151 Date Received: _____

Lab File ID: A2432 Date Analyzed: 05/15/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.18(MM) Length: 20.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.069	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	1.8	
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK15

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: MB05151 Date Received: _____

Lab File ID: A2432 Date Analyzed: 05/15/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.18(MM) Length: 20.0(M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	6.17	1.5	J
02					
03					
04					
05					
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1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: 051908 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)Ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

4LCB
LOW CONCENTRATION WATER
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK16

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FQ15216-001 Date Extracted: 05/10/2004

Lab File ID: 051903 Date Analyzed: 05/19/2004

Instrument ID: MSD4 Time Analyzed: 0513

THIS METHOD BLANK APPLIES TO THE FOLLOWING ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0001	FE06007-001	051908	05/19/2004
02	E0001MS	FE06007-001MS	051909	05/19/2004
03	E0001MSD	FE06007-001MD	051910	05/19/2004
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COMMENTS:

FORM IV LCSV OLC03.2

3LCB
LOW CONCENTRATION WATER SEMIVOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Matrix Spike - EPA Sample No.: E0001

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE AMOUNT (NG/UL)	MS AMOUNT (UG/L)	MS % REC #	QC. LIMITS REC.
Phenol	80	0.00	0.00	0*	12-110
2-Chlorophenol	80	0.00	0.00	0*	27-123
N-Nitroso-di-n-prop.(1)	20	0.00	0.00	0*	41-116
4-Chloro-3-methylphenol	80	0.00	0.00	0*	23- 97
Acenaphthene	20	0.00	0.00	0*	46-118
4-Nitrophenol	80	0.00	0.00	0*	10- 80
2,4-Dinitrotoluene	20	0.00	0.00	0*	24- 96
Pentachlorophenol	80	0.00	0.00	0*	9-103
Pyrene	20	0.00	0.00	0*	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD AMOUNT (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	80	0.00	0*		42	12-110
2-Chlorophenol	80	0.00	0*		40	27-123
N-Nitroso-di-n-prop.(1)	20	0.00	0*		38	41-116
4-Chloro-3-methylphenol	80	0.00	0*		42	23- 97
Acenaphthene	20	0.00	0*		31	46-118
4-Nitrophenol	80	0.00	0*		50	10- 80
2,4-Dinitrotoluene	20	0.00	0*		38	24- 96
Pentachlorophenol	80	0.00	0*		50	9-103
Pyrene	20	0.054	0*		31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 18 out of 18 outside limits

COMMENTS: _____

2LCD

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK16	63	63	78	63	70	68	70	83	0
02	E0001	70	65	85	68	88	68	78	78	0
03	E0001MS	56*	54	75	54	83	58	58	54	1
04	E0001MSD	60*	56	80	56	90	63	63	54	1
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			QC LIMITS
SDMC9	(DMP)	= Dimethylphthalate-d6	(62-102)
SDMC10	(ACY)	= Acenaphthylene-d8	(49- 98)
SDMC11	(4NP)	= 4-Nitrophenol-d4	(9-181)
SDMC12	(FLR)	= Fluorene-d10	(50- 97)
SDMC13	(NMP)	= 4,6-Dinitro-2-methylphenol-d2	(53-153)
SDMC14	(ANC)	= Anthracene-d10	(55-116)
SDMC15	(PYR)	= Pyrene-d10	(47-114)
SDMC16	(BAP)	= Benzo(a)pyrene-d12	(54-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2LCC

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK16	65	63	63	60	60	60	58	48
02	E0001	70	65	65	65	65	65	63	30
03	E0001MS	59	55	56	55	56	56	54	33
04	E0001MSD	61	58	58	58	58	58	56	31
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			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(10-110)
SDMC2	(BCE)	= bis-(2-Chloroethyl)ether-d8	(41- 94)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(33-110)
SDMC4	(4MP)	= 4-Methylphenol-d8	(38- 95)
SDMC5	(NBZ)	= Nitrobenzene-d5	(35-114)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(40-106)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(42- 98)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(8- 70)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK14

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-003 Date Received: 05/06/2004

Lab File ID: A2438 Date Analyzed: 05/15/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.18(MM) Length: 20.0(M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	6.17	1.6	JB µ
02					
03					
04					
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ACH 6-1-04

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLK14

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-003 Date Received: 05/06/2004

Lab File ID: A2438 Date Analyzed: 05/15/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.18(MM) Length: 20.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50 ~~0.073~~	JB
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	1.9	B
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLK14

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-003 Date Received: 05/06/2004

Lab File ID: A2438 Date Analyzed: 05/15/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.18(MM) Length: 20.0(M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.46	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: 051908 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0 ~~3.9~~	JB
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0001

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Lab File ID: 051908 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	10.35	4.6	JB U
02	141-04-8	HEXANEDIOIC ACID, BIS(2-METH	11.95	14	NJB U
03	84-69-5	1,2-BENZENEDICARBOXYLIC ACID	13.13	4.3	NJB U
04					
05					
06					
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09					
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FORM I LCSV-TIC OLC03.2

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MS

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MS Date Received: 05/06/2004

Lab File ID: 051909 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)Ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MS

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MS Date Received: 05/06/2004

Lab File ID: 051909 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0 ~~1.7~~	JBN
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MSD

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MD Date Received: 05/06/2004

Lab File ID: 051910 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)Ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MSD

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MD Date Received: 05/06/2004

Lab File ID: 051910 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0 ~~1.8~~	JB
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

SBLK16

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FQ15216-001 Date Received: _____

Lab File ID: 051903 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)Ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

SBLK16

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FQ15216-001 Date Received: _____

Lab File ID: 051903 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	3.7	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK16

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FQ15216-001 Date Received: _____

Lab File ID: 051903 Date Extracted: 05/10/2004

Sample Volume: 1000(ML) Date Analyzed: 05/19/2004

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	10.35	2.7	J
02	141-04-8	HEXANEDIOIC ACID, BIS(2-METH	11.95	9.6	NJ
03	84-69-5	1,2-BENZENEDICARBOXYLIC ACID	13.13	4.0	NJ
04					
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2LCE

LOW CONCENTRATION WATER PESTICIDE SURROGATE RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

GC Column(1):RTXCLPII ID:0.32(MM) GC Column(2):RTXCLP ID:0.25(MM)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK17	90	78	70	68			0
02	E0001	95	83	83	105			0
03	E0001MS	93	83	95	90			0
04	E0001MSD	95	85	90	123			0
05	PLCS17	100	70	83	63			0
06								
07								
08								
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23								
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28								
29								
30								

		QC LIMITS
S1 (TCX)	= Tetrachloro-m-Xylene	(30-150)
S2 (DCB)	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Matrix Spike - EPA Sample No.: E0001

Instrument ID: GC5 GC Column: RTXCLPII ID: 0.32(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE AMOUNT (NG)	MS AMOUNT (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.10	0.00	0.068	68	56-123
Heptachlor	0.10	0.00	0.067	67	40-131
Aldrin	0.10	0.00	0.066	66	40-120
Dieldrin	0.20	0.00	0.17	85	52-126
Endrin	0.20	0.00	0.17	85	56-121
4,4'-DDT	0.20	0.00	0.19	95	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD AMOUNT (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0.074	74	8	15	56-123
Heptachlor	0.10	0.075	75	11	20	40-131
Aldrin	0.10	0.079	79	18	22	40-120
Dieldrin	0.20	0.18	90	6	18	52-126
Endrin	0.20	0.18	90	6	21	56-121
4,4'-DDT	0.20	0.19	95	0	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Matrix Spike - EPA Sample No.: E0001

Instrument ID: GC5 GC Column: RTXCLP ID: 0.25(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE AMOUNT (NG)	MS AMOUNT (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.10	0.00	0.086	86	56-123
Heptachlor	0.10	0.00	0.092	92	40-131
Aldrin	0.10	0.00	0.082	82	40-120
Dieldrin	0.20	0.00	0.17	85	52-126
Endrin	0.20	0.00	0.21	105	56-121
4,4'-DDT	0.20	0.00	0.21	105	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD AMOUNT (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0.095	95	10	15	56-123
Heptachlor	0.10	0.10	100	8	20	40-131
Aldrin	0.10	0.089	89	8	22	40-120
Dieldrin	0.20	0.20	100	16	18	52-126
Endrin	0.20	0.23	115	9	21	56-121
4,4'-DDT	0.20	0.23	115	9	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3LCD
LOW CONCENTRATION WATER PESTICIDE LAB CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS17

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FQ15217-002 LCS Lot No: A8070106

LCS Aliquot: 1.0(UL) Date Extracted: 05/10/2004

Concentrated Extract Volume: 2000(UL) Date Analyzed: 05/24/2004

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Instrument ID (1): GC5 GC Column (1): RTXCLPII ID: 0.32(MM)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.081	81	50-120
Heptachlor Epoxide	0.10	0.081	81	50-150
Dieldrin	0.20	0.17	85	30-130
4,4'-DDE	0.20	0.17	85	50-150
Endrin	0.20	0.21	105	50-120
Endosulfan sulfate	0.20	0.18	90	50-120
gamma-Chlordane	0.10	0.092	92	30-130

Instrument ID (2): GC5 GC Column (2): RTXCLP ID: 0.25(MM)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.086	86	50-120
Heptachlor Epoxide	0.10	0.082	82	50-150
Dieldrin	0.20	0.16	80	30-130
4,4'-DDE	0.20	0.15	75	50-150
Endrin	0.20	0.23	115	50-120
Endosulfan sulfate	0.20	0.21	105	50-120
gamma-Chlordane	0.10	0.096	96	30-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total.

4LCC
LOW CONCENTRATION WATER
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK17

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Date Extracted: 05/10/2004 Lab Sample ID: FQ15217-001

Date Analyzed (1): 05/23/2004 Date Analyzed (2): 05/23/2004

Time Analyzed (1): 1002 Time Analyzed (2): 1014

Instrument ID (1): GC5 Instrument ID (2): GC5

GC Column (1): RTXCLPII ID: 0.32(MM) GC Column (2): RTXCLP ID: 0.25(MM)

Sulfur Cleanup (Y/N) N Extraction: (Sepf/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FQ15217-002	FQ15217-002	05/23/2004	05/23/2004
02	E0001	FE06007-001	05/23/2004	05/23/2004
03	E0001MS	FE06007-001MS	05/23/2004	05/23/2004
04	E0001MSD	FE06007-001MD	05/23/2004	05/23/2004
05	PLCS17	FQ15217-002	05/24/2004	05/24/2004
06				
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08				
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26				

COMMENTS:

FORM IV LCP OLC03.2

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001 Date Received: 05/06/2004

Sample Volume: 1000(ML) Date Extracted: 05/10/2004

Concentrated Extract Volume: 2000(UL) Date Analyzed: 05/23/2004

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor Epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin Ketone	0.020	U
7421-93-4	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MS(1)

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MS Date Received: 05/06/2004

Sample Volume: 1000(ML) Date Extracted: 05/10/2004

Concentrated Extract Volume: 2000(UL) Date Analyzed: 05/23/2004

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.068	
76-44-8	Heptachlor	0.067	
309-00-2	Aldrin	0.066	
1024-57-3	Heptachlor Epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.17	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.17	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.19	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin Ketone	0.011	J
7421-93-4	Endrin Aldehyde	0.022	
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.21	
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MS(2)

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MS Date Received: 05/06/2004

Sample Volume: 1000(ML) Date Extracted: 05/10/2004

Concentrated Extract Volume: 2000(UL) Date Analyzed: 05/23/2004

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.086	
76-44-8	Heptachlor	0.092	
309-00-2	Aldrin	0.082	
1024-57-3	Heptachlor Epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.17	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.21	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.21	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin Ketone	0.017	J
7421-93-4	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MSD(1)

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MD Date Received: 05/06/2004

Sample Volume: 1000(ML) Date Extracted: 05/10/2004

Concentrated Extract Volume: 2000(UL) Date Analyzed: 05/23/2004

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.074	
76-44-8	Heptachlor	0.075	
309-00-2	Aldrin	0.079	
1024-57-3	Heptachlor Epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.18	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.18	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.19	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin Ketone	0.020	U
7421-93-4	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.12	
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0001MSD(2)

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FE06007-001MD Date Received: 05/06/2004

Sample Volume: 1000(ML) Date Extracted: 05/10/2004

Concentrated Extract Volume: 2000(UL) Date Analyzed: 05/23/2004

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.095	
76-44-8	Heptachlor	0.10	
309-00-2	Aldrin	0.089	
1024-57-3	Heptachlor Epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.20	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.23	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.23	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin Ketone	0.032	
7421-93-4	Endrin Aldehyde	0.0094	J
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PBLK17

Lab Name: SHEALY ENVIRONMENTAL Contract: 68W01040

Lab Code: SHEALY Case No.: 32841 Client No.: SDG No.: E0001

Lab Sample ID: FQ15217-001 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 05/10/2004

Concentrated Extract Volume: 2000(UL) Date Analyzed: 05/23/2004

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor Epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin Ketone	0.020	U
7421-93-4	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0001 CERCLIS No: ILD980497721

Case No: 32841 Site Name/Location: CARLSTROM LANDFILL

Contractor or EPA Lab: STERLY Data User: IEPA

No. of Samples: 2 Date Sampled or Date Received: 5-26-04

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 2 No. of samples received: 2

Received by: Eva M. Dixon | ESAT Date: 5-26-04

Received by LSSS: Eva M Dixon | ESAT Date: 5-26-04

Review started: June 1, 2004 Reviewer Signature: Allison C Harvey

Total time spent on review: 7 hrs Date review completed: 6-1-04

Copied by: Eva M. Dixon | ESAT Date: 6-3-04

Mailed to user by: Eva M. Dixon | ESAT Date: 6-3-04

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: APR 2 7 2004

Subject: Review of Region 5 Data for **Carlstrom LF**

From: **Stephen Connet, Chemist, Alion Science and Technology/ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on 4-26-04

To:

Attached are the results for: ***Carlstrom LF***

CRL data set numbers: **E403002**

Samples analyzed for: **Total Cyanide**

Results are reported for sample designations: **E403002-01 thru -06**

MAY 0 3 2004

3 2004

Sylvia Griffin APR/2 7/2004

Data Management Coordinator and Date Received

Date Transmitted: APR 2 7 2004

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Attached are the results for: **Carlstrom LF**

CRL data set numbers: **E403002**

Samples analyzed for: **Total Cyanide**

Results are reported for sample designations: **E403002-01 thru -06**

Rev. 4/10/02

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

WORK ORDER

Printed: 4/13/04 8:03:11A

E403002

Alion - ESAT Contract

Client:	**Superfund, US EPA Region 5**	**Project Manager:**	**Jennifer Mokos**
Project:	**Carlstrom Landfill**	**Project Number:**	**[none]**

Report To:

Howard Pham	77 West Jackson Boulevard	Phone: (312) 353-2310
Superfund, US EPA Region 5	Chicago, IL 60604	Fax: (312) 886-6171

Date Due:	Apr-30-04 15:00 (30 day TAT)		
Received By:	Eva Dixon	Date Received:	Mar-31-04 12:53
Logged In By:	Eva Dixon	Date Logged In:	Mar-31-04 12:53

Samples Received at:	10.8°C
Custody Seals	Yes
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confirmed	Yes

Analysis	Due	TAT	Expires	Comments
E403002-01 2004IE04 S01 [Water] Sampled Mar-30-04 10:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 10:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 10:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
E403002-02 2004IE04 S02 [Water] Sampled Mar-30-04 13:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)

4-13-04

000003

WORK ORDER

Printed: 4/13/04 8:03:11A

E403002

Alion - ESAT Contract

Client:	Superfund, US EPA Region 5	Project Manager:	Jennifer Mokos
Project:	Carlstrom Landfill	Project Number:	[none]

Analysis	Due	TAT	Expires	Comments
E403002-03 2004IE04 D02 [Water] Sampled Mar-30-04 13:40 Central				**Field Duplicate of E403002-02**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
E403002-04 2004IE04 S03 [Water] Sampled Mar-30-04 11:55 Central				**MS/MSD**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 11:55	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 11:55	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
E403002-05 2004IE04 R01 [Water] Sampled Mar-30-04 12:00 Central				**Field Blank**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 12:00	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 12:00	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
E403002-06 2004IE04 S04 [Water] Sampled Mar-30-04 14:30 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 14:30	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 14:30	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)

Reviewed By

4-13-04

Date

000004

Method: 335.2 (CRL SOP AIG025)
Site: Carlstrom LF
Date: April 13, 2004
Prepared by: Stephen Connet

TDF: 5-22-009
Alion Job #: 246-0-1476-202-075-001
Task Order #: 05-1-22
Data Set: E403002

NARRATIVE

Six (6) water samples from the Carlstrom LF site were collected on March 30, 2004 and were received by CRL correctly preserved but at a temperature of 10.8 °C on March 31, 2004; all samples are flagged "J" and considered estimated due to exceeded cooler temperature at the time of receipt. The sample points are identified on the following page.

Per the TDF, the samples are considered drinking water samples and the reporting limit must be no greater than the reporting limit listed in http://www.epa.gov/safewater/mcl.html#mcls. The listed MCL (maximum contaminant level) and MCLG (maximum contaminant level goal) for cyanide are both 0.2 mg/L (200 ug/L). The ESAT reporting level is 8 ug/L.

The samples were checked with lead acetate and potassium iodide starch papers with negative results. The samples were distilled following the MIDI distillation method using the EasyStill distillation apparatus on April 5, 2004 (distillation batch ED40502). The samples were analyzed on April 6, 2004 for total cyanide using a Lachat QuickChem AE Autoanalyzer according to CRL SOP AIG025 (method 335.2). Control limits are based on ESAT control charts; CRL default limits are used if ESAT limits are greater than CRL limits. All samples were analyzed within the 14-day holding time limit.

Samples E403002-02 and -03 are field duplicates and show good correlation.

All QC audits were in control. A control sample was distilled, diluted 1:1 and analyzed with the batch. No acceptance criteria have been established for the sample. The certified value supplied by the manufacturer was used for evaluation purposes. Non-detect results are reported to the reporting limit (RL; ESAT RL = 8 ug/L).

QC reports which include analytical QC are provided as Lotus spreadsheets. Logbook entries for this cyanide analysis can be found in Alion logbook C31640 pages 15-16.

4-22-04
000006

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-20-04 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE04 S01	E403002-01	Water	Mar-30-04 10:40	Mar-31-04 12:53
2004IE04 S02	E403002-02	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 D02	E403002-03	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 S03	E403002-04	Water	Mar-30-04 11:55	Mar-31-04 12:53
2004IE04 R01	E403002-05	Water	Mar-30-04 12:00	Mar-31-04 12:53
2004IE04 S04	E403002-06	Water	Mar-30-04 14:30	Mar-31-04 12:53

4-20-04

000007

Stephen Connet, Chemist

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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-20-04 13:29

Automated Colorimetric Analyses
Alion - ESAT Contract

2004IE04 S01 (E403002-01) Water Sampled: Mar-30-04 10:40 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	ED40502	Apr-05-04	Apr-06-04

2004IE04 S02 (E403002-02) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	ED40502	Apr-05-04	Apr-06-04

2004IE04 D02 (E403002-03) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	ED40502	Apr-05-04	Apr-06-04

2004IE04 S03 (E403002-04) Water Sampled: Mar-30-04 11:55 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	ED40502	Apr-05-04	Apr-06-04

2004IE04 R01 (E403002-05) Water Sampled: Mar-30-04 12:00 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	ED40502	Apr-05-04	Apr-06-04

2004IE04 S04 (E403002-06) Water Sampled: Mar-30-04 14:30 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	ED40502	Apr-05-04	Apr-06-04

4-20-04

Stephen Connet, Chemist

000008

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Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Carlstrom Landfill	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Apr-20-04 13:29

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

4-20-04

000009

Stephen Connet, Chemist

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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-20-04 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE04 S01	E403002-01	Water	Mar-30-04 10:40	Mar-31-04 12:53
2004IE04 S02	E403002-02	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 D02	E403002-03	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 S03	E403002-04	Water	Mar-30-04 11:55	Mar-31-04 12:53
2004IE04 R01	E403002-05	Water	Mar-30-04 12:00	Mar-31-04 12:53
2004IE04 S04	E403002-06	Water	Mar-30-04 14:30	Mar-31-04 12:53

4-20-04

Stephen Comiet, Chemist

000010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: APR 29 2004

Subject: Review of Region 5 Data for **Carlstrom Landfill (Rockdale, IL)**

From: **Marjorie Mattox, Chemist, ESAT/ALION**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox, 4-28-04

To:

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)**

CRL data set number: **E403002**

Samples analyzed for: **Mercury**

Results are reported for sample designations: **E403002-01 to -06**

RECEIVED
MAY 17 2004
EPA-SOL

Sylvia Griffin APR 29 2004

Data Management Coordinator and Date Received

Date Transmitted: APR 29 2004

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)**

CRL data set number: **E403002**

Samples analyzed for: **Mercury**

Results are reported for sample designations: **E403002-01 to -06**

Rev. 4/10/02

Parameter: Mercury
Method: 245.2*DNS (AIG044)
Analyst: M. Mattox M. Mattox
Date: April 27, 2004 4-27-04

Work Order: E403002
TDF: 5-22-009
JOB: 246-0-1476-202-075-001
Task Order: 05-1-22

NARRATIVE

This narrative covers the analysis of 6 water samples from the Carlstrom Landfill site. Six water samples were submitted to ESAT for mercury analysis. The samples were collected on March 30, 2004. The samples were received on March 31, 2004. All samples were received properly preserved for mercury analysis. The cooler was received at a temperature of 10.8 degrees C.

For a more detailed listing of sample ID, laboratory ID, field station ID, and sampling dates, refer to the Work Order pages and/or the initial LIMS report pages where such listings can be found.

All samples were analyzed within the 28 day holding time limit. Samples were digested on April 16, 2004. Analysis was completed on April 19, 2004 as LIMS batch ED41901. All matrix and instrument QC were acceptable.

Per the TDF, the samples are considered drinking water samples and the reporting limit must be no greater than the reporting limit listed in http://www.epa.gov/safewater/mcl.html#mcls. The listed MCL (maximum contaminant level) and MCLG (maximum contaminant level goal) for mercury are both 0.002 mg/L (0.2 ug/L). The ESAT reporting level is 0.5 ug/L.

The samples were digested by adding the acid mixture, potassium permanganate, and potassium persulfate manually. The samples were then covered during the digestion. Digestion was done by heating the batch at 95 degrees in a water bath for two hours. This procedure was done in accordance with an SOP modification dated June 26, 2002. The hydroxylamine solution was manually added prior to analysis.

All sample results were acceptable. Details of this analysis can be found in Alion logbook number C31849.

Water samples E403002-02/-03 are a field duplicate pair which show good correlation. Sample E403002-05 is a field blank which shows no contamination.

Results have been entered into RLIMS and matrix and digestion QC are reported on RLIMS generated reports. A QC summary is in a separate WordPerfect report.

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WORK ORDER Printed: 4/28/04 10:14:39A

E403002

Alion - ESAT Contract

Client:	**Superfund, US EPA Region 5**	**Project Manager:**	**Jennifer Mokos**
Project:	**Carlstrom Landfill**	**Project Number:**	**[none]**

Report To:

Howard Pham	77 West Jackson Boulevard	Phone: (312) 353-2310
Superfund, US EPA Region 5	Chicago, IL 60604	Fax: (312) 886-6171

Date Due:	Apr-30-04 15:00 (30 day TAT)		
Received By:	Eva Dixon	Date Received:	Mar-31-04 12:53
Logged In By:	Eva Dixon	Date Logged In:	Mar-31-04 12:53

Samples Received at:	10.8°C
Custody Seals	Yes
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confirmed	Yes

Analysis	Due	TAT	Expires	Comments
E403002-01 2004IE04 S01 [Water] Sampled Mar-30-04 10:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 10:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 10:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
E403002-02 2004IE04 S02 [Water] Sampled Mar-30-04 13:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)

000003

M. Matter 4-27-04

E403002
Alion - ESAT Contract

Client:	Superfund, US EPA Region 5	Project Manager:	Jennifer Mokos
Project:	Carlstrom Landfill	Project Number:	[none]

Analysis	Due	TAT	Expires	Comments
E403002-03 2004IE04 D02 [Water] Sampled Mar-30-04 13:40 Central				**Field Duplicate of E403002-02**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
E403002-04 2004IE04 S03 [Water] Sampled Mar-30-04 11:55 Central				**MS/MSD**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 11:55	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 11:55	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
E403002-05 2004IE04 R01 [Water] Sampled Mar-30-04 12:00 Central				**Field Blank**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 12:00	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 12:00	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
E403002-06 2004IE04 S04 [Water] Sampled Mar-30-04 14:30 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 14:30	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 14:30	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)

000004

M. Mattop
Reviewed By

4-27-04
Date

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Carlstrom Landfill	
77 West Jackson Boulevard	Project Number: [none]	Reported:
Chicago IL, 60604	Project Manager: Howard Pham	Apr-28-04 12:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE04 S01	E403002-01	Water	Mar-30-04 10:40	Mar-31-04 12:53
2004IE04 S02	E403002-02	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 D02	E403002-03	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 S03	E403002-04	Water	Mar-30-04 11:55	Mar-31-04 12:53
2004IE04 R01	E403002-05	Water	Mar-30-04 12:00	Mar-31-04 12:53
2004IE04 S04	E403002-06	Water	Mar-30-04 14:30	Mar-31-04 12:53

M. Mattox 4-28-03
Margie Mattox, Chemist

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	Reported: Apr-28-04 12:17

Cold Vapor Analyses
Alion - ESAT Contract

2004IE04 S01 (E403002-01) Water Sampled: Mar-30-04 10:40 Received: Mar-31-04 12:53 G501

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	ED41901	Apr-16-04	Apr-19-04

2004IE04 S02 (E403002-02) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53 G201

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	ED41901	Apr-16-04	Apr-19-04

2004IE04 D02 (E403002-03) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53 G202

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	ED41901	Apr-16-04	Apr-19-04

2004IE04 S03 (E403002-04) Water Sampled: Mar-30-04 11:55 Received: Mar-31-04 12:53 G203

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	ED41901	Apr-16-04	Apr-19-04

2004IE04 R01 (E403002-05) Water Sampled: Mar-30-04 12:00 Received: Mar-31-04 12:53 FB

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	ED41901	Apr-16-04	Apr-19-04

2004IE04 S04 (E403002-06) Water Sampled: Mar-30-04 14:30 Received: Mar-31-04 12:53 G204

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	ED41901	Apr-16-04	Apr-19-04

000008

M. Mattox 4-28-04
Margie Mattox, Chemist

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Superfund, US EPA Region 5	Project: Carlstrom Landfill	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Apr-28-04 12:17

Notes and Definitions

U	Not Detected
NR	Not Reported

000009

M Mattox 4-28-04
Margie Mattox, Chemist

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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-28-04 12:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE04 S01	E403002-01	Water	Mar-30-04 10:40	Mar-31-04 12:53
2004IE04 S02	E403002-02	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 D02	E403002-03	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 S03	E403002-04	Water	Mar-30-04 11:55	Mar-31-04 12:53
2004IE04 R01	E403002-05	Water	Mar-30-04 12:00	Mar-31-04 12:53
2004IE04 S04	E403002-06	Water	Mar-30-04 14:30	Mar-31-04 12:53

M. Mattox 4-28-04
Margie Mattox, Chemist

000010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: APR 29 2004

Subject: Review of Region 5 Data for **Carlstrom Landfill (Rockdale, IL)**

From: **Marjorie Mattox, Chemist, ESAT/ALION**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox, 4-28-04

To:

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)** MAY 17 2004

CRL data set number: **E403002**

Samples analyzed for: **ICP METALS & Cd**

Results are reported for sample designations: **E403002-01 to -06**

Sylvia Griffin APR 29 2004

Data Management Coordinator and Date Received

Date Transmitted: APR 29 2004

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

Received by and Date

Comments:

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)**

CRL data set number: **E403002**

Samples analyzed for: **ICP METALS & Cd**

Results are reported for sample designations: **E403002-01 to -06**

Rev. 4/10/02

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

WORK ORDER

Printed: 4/27/04 1:07:16P

E403002

Alion - ESAT Contract

Client:	Superfund, US EPA Region 5	Project Manager:	Jennifer Mokos
Project:	Carlstrom Landfill	Project Number:	[none]

Report To:

Howard Pham	77 West Jackson Boulevard	Phone: (312) 353-2310
Superfund, US EPA Region 5	Chicago, IL 60604	Fax: (312) 886-6171

Date Due:	Apr-30-04 15:00 (30 day TAT)		
Received By:	Eva Dixon	Date Received:	Mar-31-04 12:53
Logged In By:	Eva Dixon	Date Logged In:	Mar-31-04 12:53

Samples Received at:	10.8°C
Custody Seals	Yes
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confirmed	Yes

Analysis	Due	TAT	Expires	Comments
E403002-01 2004IE04 S01 [Water] Sampled Mar-30-04 10:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 10:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 10:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
E403002-02 2004IE04 S02 [Water] Sampled Mar-30-04 13:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)

M. Mattox 4-27-04

Client: Superfund, US EPA Region 5
Project: Carlstrom Landfill
Project Manager: Jennifer Mokos
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
E403002-03 2004IE04 D02 [Water] Sampled Mar-30-04 13:40 Central				**Field Duplicate of E403002-02**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
E403002-04 2004IE04 S03 [Water] Sampled Mar-30-04 11:55 Central				**MS/MSD**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 11:55	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 11:55	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
E403002-05 2004IE04 R01 [Water] Sampled Mar-30-04 12:00 Central				**Field Blank**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 12:00	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 12:00	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
E403002-06 2004IE04 S04 [Water] Sampled Mar-30-04 14:30 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 14:30	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 14:30	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)

M. Matteo
Reviewed By

4-27-04
Date

Parameter: ICP Metals & Cd
Method: CRL Metals 003 & Metals 025
Analyst: M. Mattox M. Mattox
Date: April 27, 2004 4-27-04

Work Order: E403002
TDF: 5-22-009
Task Order: 05-1-22
JOB: 246-0-1476-202-075-001

ICP NARRATIVE

This narrative covers the analysis of 6 water samples from the Carlstrom Landfill site. Six water samples were submitted to ESAT for ICP metals & Cd analysis. The samples were collected on March 30, 2004. The samples were received properly preserved for metals analysis on March 31, 2004. The cooler was received at a temperature of 10.8 degrees C.

For a more detailed listing of sample ID, laboratory ID, field station ID, and sampling dates, refer to the Work Order pages and/or the initial LIMS report pages where such listings can be found.

Routine CRL SOP Metals 025 (water) was used to prepare the water samples for ICP analysis. The samples were digested on April 5, 2004 as LIMS batch ED40202. Due to problems with the Optima 3300, and in order to meet the deadline requested by our client, ESAT conducted MDL analysis on the Optima 4300 on April 21, 2004. This work order was then analyzed on April 23, 2004. All samples were analyzed within the holding time limit.

Analysis QC background information

On April 20, 2004 a digestion batch of two MDL solutions was digested. The two solutions with two different concentration sets were prepared using the Optima 3300 RL solution of December 31, 2003. These solutions were analyzed on April 22, 2004. Further work is needed to meet some requirements for the MDL's and RL's. MDL's and RL's used for the reporting of these results are interim. Also, problems were encountered with K which required ESAT to default to the EPA MDL and RL for this analyte. All interim MDL's and RL's will be updated as soon as the opportunity arises.

Due to the development of new MDL's and time constraints for the reporting of final results four different reporting limit solutions were used. Each solution is used for different analytes. A listing of analytes used for each solution can be found in the QC summary section of this report.

A policy for significant figures was discussed with the EPA. In order to have the correct number of significant figures in LIMS to reflect EPA's policy the method will need to be set up differently. Due to the due date for this package the changes were not made, but will be done as soon as the opportunity arises.

29 to 31 analyte lines out of a possible 78 lines available using the Optima 3300 DV method were chosen by a plan agreed upon by Dr. J. V. Morris. These are to be used for routine reporting of analyte values that appear in the QA summary reports.

Analysis E403002 run results - Optima 3300 DV

The following analytes will not be addressed, all other analytes will be discussed in this case narrative:

As, B, Ce, Li, Mo, Pb, Sb, Se, Sn, Sr, Ti, Tl, Y

CRL limits were used for the evaluation of the data due to ESAT just beginning use of the Optima 4300. ESAT limits will be established as data is collected. All instrument and preparation blank data are being recorded but the limits for blanks will always be the MDL.

The following lists the case pertinent out-of-control QC audit check results based on default QA / QC (traditional) limits:

E403002 analysis :

Instrument QC:

04/23/04 analysis:

Blanks: (Blank values are rounded)

Instr. Blk 1:	K766	-1166.53	ug/L
	Ni231	-0.61	"
Instr. Blk 2:	Ag328	-1.13	"
	Co228	-0.36	"
	Cr267	-2.87	"
	K766	-1346.45	"
	Ni231	-0.86	"

			Percent deviation
LCM1's:	LCM1 1:	Ag328	++
		Mg279	**, 12.06
	LCM1 2:	Ag328	++

++ upper concentration level exceeded ; LCM2 check audits used for control purposes

** alternate line / level used for control purposes

Matrix QC:

Preparation Blank:	ED40202-BLK1:	Al396	28.49	ug/L
		Co228	-0.57	"
		Fe259	20.28	"
		K766	-2037.40	"
		Ni231	-0.998	"

Matrix Duplicate: ED40202-DUP1: Ag328, Al396, Be313, Co228, Cd226, Ni231, V292; <5X (difference)

<5X is listed on the LIMS report to point out that the duplicate difference was used for QC evaluation purposes, the RPD was not always listed on the LIMS report. All duplicate difference QC were acceptable.

Matrix Spike: ED40202-MS1: Fe259 #

audit not valid; sample concentration is greater than twice the spike concentration. The blank spike is used for validation purposes for these analytes.

M. Mattos 4-27-04

Sample analyte qualifications:

Compilation of control chart information is on-going for all check audits from Optima 4300 analysis runs. Data is currently being gathered for all QA audits.

The ICP sample results reported are acceptable except as noted in the following paragraphs.

For Ag, LCM2 QA check audits were used for control purposes rather than LCM1 check audits since the level of Ag in the LCM1 solutions exceed the upper linear limit for Ag. Also for Ag, instrument blank #2 showed a negative result with an absolute value was greater than the MDL. No sample results were affected by this blank.

For Al, the sample results for E403002-01, -03, are flagged "J" since the values were between the MDL and RL. Also for Al, the preparation blank ED40202-BLK1 showed a positive result with a value greater than the MDL indicating possible contamination. Sample results affected by this blank showing a high bias were E403002-01, -03. These results are flagged "K".

For Ca, the sample result for E403002-05 is flagged "J" since the value was between the MDL and RL.

For Co, the sample result for E403002-06 is flagged "J" since the value was between the MDL and RL. Also for Co, instrument blank #2 and the preparation blank ED40202-BLK1 showed negative results with absolute values greater than the MDL. Therefore a positive sample result affected by these blanks was E403002-06 and is flagged "L".

For Cr, instrument blank #2 showed a negative result with an absolute value greater than the MDL. Therefore positive sample results affected by this blank were E403002-01, -04 and are flagged "L".

or Fe, all sample results were reported from the 259 line. Also for Fe, the preparation blank ED40202-BLK1 showed a positive result with a value greater than the MDL indicating possible contamination. Sample results affected by this blank showing a high bias were E403002-02, -03, -06. These results are flagged "K". Also for Fe, the sample results for E403002-02, -03, -06, are flagged "J" since the values were between the MDL and RL.

For K, all instrument blanks and the preparation blank ED40202-BLK1 showed negative results with an absolute value greater than the MDL indicating a low bias. All sample results, E403002-01 to -06, were affected by these blanks. The sample result for E403002-05 is a negative concentration whose absolute value is greater than the RL. Therefore all K results are flagged "L" due to a low bias.

For Mg, the sample result for E403002-05, and the preparation blank ED40202-BLK1, were reported from the Mg280 line, all other results were reported from the Mg279 line. Also for Mg, the sample result for E403002-05 is flagged "J" since the value was between the MDL and RL.

For Na, the sample result for E403002-05 is flagged "J" since the value was between the MDL and RL.

For Ni, the sample results for E403002-01 to -04, are flagged "J" since the values were between the MDL and RL. Also for Ni, instrument blank #1 and the preparation blank ED40202-BLK1 showed negative results with absolute values greater than the MDL. For Ni, positive sample results affected by these blanks were E403002-01 to -04, and are flagged "L".

For Zn, the sample result for E403002-06, is flagged "J" since the value was between the MDL and RL.

All flagged results are considered estimated. All sample results are usable.

M. Mattop 4-27-04

Other comments

It has been observed that some LIMS report RPD calculations do not match all of our in house RPD calculations due to the number of significant figures used in the calculations.

Samples E403002-02/03 are a field duplicate pair showing good correlation for all analytes except for Fe. Sample E403002-05 is a field blank. The field blank showed slight contamination with Ca, Mg, and Na. No qualification is made on the basis of field QC results.

M. Mattes 4-27-04

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-27-04 17:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE04 S01	E403002-01	Water	Mar-30-04 10:40	Mar-31-04 12:53
2004IE04 S02	E403002-02	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 D02	E403002-03	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 S03	E403002-04	Water	Mar-30-04 11:55	Mar-31-04 12:53
2004IE04 R01	E403002-05	Water	Mar-30-04 12:00	Mar-31-04 12:53
2004IE04 S04	E403002-06	Water	Mar-30-04 14:30	Mar-31-04 12:53

M. Mattox 4-27-04
Margie Mattox, Chemist

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	Reported: Apr-27-04 17:34

Metals by ICP
Alion - ESAT Contract

G501

2004IE04 S01 (E403002-01) Water Sampled: Mar-30-04 10:40 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	45.7	J, K	28.0	80.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Barium	32.3		0.5	2.0	"	"	"	"	"
Beryllium	U		0.2	1.0	"	"	"	"	"
Cadmium	U		0.4	1.0	"	"	"	"	"
Calcium	66100		35.0	100	"	"	"	"	"
Chromium	10.3	L	2.0	4.0	"	"	"	"	"
Cobalt	U		0.3	2.0	"	"	"	"	"
Copper	6.7		1.8	6.0	"	"	"	"	"
Iron	340		4.0	30.0	"	"	"	"	"
Magnesium	21700		18.0	40.0	"	"	"	"	"
Manganese	6.5		0.2	1.0	"	"	"	"	"
Nickel	2.5	L, J	0.6	10.0	"	"	"	"	"
Potassium	15800	L	660	2000	"	"	"	"	"
Silver	U		1.0	4.0	"	"	"	"	"
[illegible]um	84300		56.0	400	"	"	"	"	"
Vanadium	U		1.2	10.0	"	"	"	"	"
Zinc	32.6		10.0	30.0	"	"	"	"	"

2004IE04 S02 (E403002-02) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53 G201

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	U		28.0	80.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Barium	49.5		0.5	2.0	"	"	"	"	"
Beryllium	U		0.2	1.0	"	"	"	"	"
Cadmium	U		0.4	1.0	"	"	"	"	"
Calcium	135000		35.0	100	"	"	"	"	"
Chromium	34.1		2.0	4.0	"	"	"	"	"
Cobalt	U		0.3	2.0	"	"	"	"	"
Copper	22.5		1.8	6.0	"	"	"	"	"
Iron	27.8	J, K	4.0	30.0	"	"	"	"	"
Magnesium	89500		18.0	40.0	"	"	"	"	"
Manganese	4.3		0.2	1.0	"	"	"	"	"
Nickel	2.8	L, J	0.6	10.0	"	"	"	"	"
Potassium	6070	L	660	2000	"	"	"	"	"

M. Mattox 4-27-04
Margie Mattox, Chemist

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Metals by ICP
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2004IE04 S02 (E403002-02) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53 G201

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Silver	U		1.0	4.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Sodium	46800		56.0	400	"	"	"	"	"
Vanadium	U		1.2	10.0	"	"	"	"	"
Zinc	38.7		10.0	30.0	"	"	"	"	"

2004IE04 D02 (E403002-03) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53 G202

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	28.2	J, K	28.0	80.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Barium	49.2		0.5	2.0	"	"	"	"	"
Beryllium	U		0.2	1.0	"	"	"	"	"
Cadmium	U		0.4	1.0	"	"	"	"	"
Calcium	134000		35.0	100	"	"	"	"	"
Chromium	33.9		2.0	4.0	"	"	"	"	"
Cobalt	U		0.3	2.0	"	"	"	"	"
Copper	19.6		1.8	6.0	"	"	"	"	"
Iron	18.9	J, K	4.0	30.0	"	"	"	"	"
Magnesium	82700		18.0	40.0	"	"	"	"	"
Manganese	4.5		0.2	1.0	"	"	"	"	"
Nickel	2.7	L, J	0.6	10.0	"	"	"	"	"
Potassium	5620	L	660	2000	"	"	"	"	"
Silver	U		1.0	4.0	"	"	"	"	"
Sodium	46500		56.0	400	"	"	"	"	"
Vanadium	U		1.2	10.0	"	"	"	"	"
Zinc	46.1		10.0	30.0	"	"	"	"	"

2004IE04 S03 (E403002-04) Water Sampled: Mar-30-04 11:55 Received: Mar-31-04 12:53 G203

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	U		28.0	80.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Barium	20.2		0.5	2.0	"	"	"	"	"
Beryllium	U		0.2	1.0	"	"	"	"	"
Cadmium	U		0.4	1.0	"	"	"	"	"
Calcium	51600		35.0	100	"	"	"	"	"

M. Mattox 4-27-04
Margie Mattox, Chemist

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perfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	Reported: Apr-27-04 17:34

Metals by ICP
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2004IE04 S03 (E403002-04) Water Sampled: Mar-30-04 11:55 Received: Mar-31-04 12:53 G203

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chromium	13.5	L	2.0	4.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Cobalt	U		0.3	2.0	"	"	"	"	"
Copper	23.5		1.8	6.0	"	"	"	"	"
Iron	2160		4.0	30.0	"	"	"	"	"
Magnesium	24500		18.0	40.0	"	"	"	"	"
Manganese	18.4		0.2	1.0	"	"	"	"	"
Nickel	1.0	L, J	0.6	10.0	"	"	"	"	"
Potassium	19100	L	660	2000	"	"	"	"	"
Silver	U		1.0	4.0	"	"	"	"	"
Sodium	92800		56.0	400	"	"	"	"	"
Vanadium	U		1.2	10.0	"	"	"	"	"
Zinc	1400		10.0	30.0	"	"	"	"	"

'IE04 R01 (E403002-05) Water Sampled: Mar-30-04 12:00 Received: Mar-31-04 12:53 FB

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	U		28.0	80.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Barium	U		0.5	2.0	"	"	"	"	"
Beryllium	U		0.2	1.0	"	"	"	"	"
Cadmium	U		0.4	1.0	"	"	"	"	"
Calcium	57.7	J	35.0	100	"	"	"	"	"
Chromium	U		2.0	4.0	"	"	"	"	"
Cobalt	U		0.3	2.0	"	"	"	"	"
Copper	U		1.8	6.0	"	"	"	"	"
Iron	U		4.0	30.0	"	"	"	"	"
Magnesium	8.4	J	7.0	20.0	"	"	"	"	"
Manganese	U		0.2	1.0	"	"	"	"	"
Nickel	U		0.6	10.0	"	"	"	"	"
Potassium	U	L	660	2000	"	"	"	"	"
Silver	U		1.0	4.0	"	"	"	"	"
Sodium	277	J	56.0	400	"	"	"	"	"
Vanadium	U		1.2	10.0	"	"	"	"	"
Zinc	U		10.0	30.0	"	"	"	"	"

M. Mattox 4-27-04
Margie Mattox, Chemist

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-27-04 17:34

Metals by ICP
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2004IE04 S04 (E403002-06) Water Sampled: Mar-30-04 14:30 Received: Mar-31-04 12:53 G204

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	U		28.0	80.0	ug/L	1	ED40202	Apr-05-04	Apr-23-04
Barium	21.8		0.5	2.0	"	"	"	"	"
Beryllium	U		0.2	1.0	"	"	"	"	"
Cadmium	U		0.4	1.0	"	"	"	"	"
Calcium	125000		35.0	100	"	"	"	"	"
Chromium	30.9		2.0	4.0	"	"	"	"	"
Cobalt	1.8	L, J	0.3	2.0	"	"	"	"	"
Copper	15.1		1.8	6.0	"	"	"	"	"
Iron	5.6	J, K	4.0	30.0	"	"	"	"	"
Magnesium	83900		18.0	40.0	"	"	"	"	"
Manganese	6.8		0.2	1.0	"	"	"	"	"
Nickel	11.8		0.6	10.0	"	"	"	"	"
Potassium	6270	L	660	2000	"	"	"	"	"
Silver	U		1.0	4.0	"	"	"	"	"
Sodium	38500		56.0	400	"	"	"	"	"
Vanadium	U		1.2	10.0	"	"	"	"	"
Zinc	17.5	J	10.0	30.0	"	"	"	"	"

M. Mattox 4-27-04
Margie Mattox, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-27-04 17:34

Notes and Definitions

#	Spike audit not valid. The sample concentration exceeds twice the concentration of the spike added. No qualification made for this QC audit.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
U	Not Detected
NR	Not Reported

M. Mattox 4-27-04
Margie Mattox, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

Subject: Review of Region 5 Data for **Carlstrom LF**

From: **Stephen Connet, Chemist, Alion Science and Technology/ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on 4-26-04

To:

Attached are the results for: **Carlstrom LF**

CRL data set numbers: **E403002**

Samples analyzed for: **GFAA Antimony, Arsenic, Lead, Selenium, Thallium**

Results are reported for sample designations: **E403002-01 thru -06**

Sylvia Griffin APR 2 7 2004

Data Management Coordinator and Date Received

Date Transmitted: APR 2 7 2004

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Attached are the results for: **Carlstrom LF**

CRL data set numbers: **E403002**

Samples analyzed for: **GFAA Antimony, Arsenic, Lead, Selenium, Thallium**

Results are reported for sample designations: **E403002-01 thru -06**

Rev. 4/10/02

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

WORK ORDER Printed: 4/13/04 8:03:11A

E403002

Alion - ESAT Contract

Client:	**Superfund, US EPA Region 5**	**Project Manager:**	**Jennifer Mokos**
Project:	**Carlstrom Landfill**	**Project Number:**	**[none]**

Report To:

Howard Pham	77 West Jackson Boulevard	Phone: (312) 353-2310
Superfund, US EPA Region 5	Chicago, IL 60604	Fax: (312) 886-6171

Date Due:	Apr-30-04 15:00 (30 day TAT)		
Received By:	Eva Dixon	Date Received:	Mar-31-04 12:53
Logged In By:	Eva Dixon	Date Logged In:	Mar-31-04 12:53

Samples Received at:	10.8°C
Custody Seals	Yes
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confirmed	Yes

Analysis	Due	TAT	Expires	Comments
3002-01 2004IE04 S01 [Water] Sampled Mar-30-04 10:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 10:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 10:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 10:40	pH (1)
E403002-02 2004IE04 S02 [Water] Sampled Mar-30-04 13:40 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)

4-13-04

000003

WORK ORDER

Printed: 4/13/04 8:03:11A

E403002

Alion - ESAT Contract

Client:	Superfund, US EPA Region 5	Project Manager:	Jennifer Mokos
Project:	Carlstrom Landfill	Project Number:	[none]

Analysis	Due	TAT	Expires	Comments
E403002-03 2004IE04 D02 [Water] Sampled Mar-30-04 13:40 Central				**Field Duplicate of E403002-02**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 13:40	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 13:40	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 13:40	pH (1)
E403002-04 2004IE04 S03 [Water] Sampled Mar-30-04 11:55 Central				**MS/MSD**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 11:55	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 11:55	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 11:55	pH (1)
E403002-05 2004IE04 R01 [Water] Sampled Mar-30-04 12:00 Central				**Field Blank**
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 12:00	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 12:00	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 12:00	pH (1)
E403002-06 2004IE04 S04 [Water] Sampled Mar-30-04 14:30 Central				
GFAA 800 Sb	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Cyanide, Total	Apr-30-04 12:00	30	Apr-13-04 14:30	pH (12)
Hg Total CVAA	Apr-28-04 12:00	28	Apr-27-04 14:30	pH (1)
Cd ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
Metals SF ICP (W)	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)
GFAA SimAA Metals	Apr-30-04 12:00	30	Sep-26-04 14:30	pH (1)

Reviewed By

4-13-04

Date

000004

Method: 200.9 (GFAA Metals)
Site: Carlstrom LF
Date: April 13, 2004
Prepared by: Stephen Connet

TDF: 5-22-009
Alion Job #: 246-0-1476-202-075-001
Task Order #: 05-1-22
Data Set: E403002

NARRATIVE

Six (6) water samples from the Carlstrom LF site were collected on March 30, 2004 and were received by CRL correctly preserved but at a temperature of 10.8 °C on March 31, 2004. The samples were submitted to ESAT for analysis of antimony, arsenic, lead, selenium, and thallium by GFAA. Cadmium results are reported from ICP. The sample point identifications are on the first page of the LIMS report following this narrative.

The samples were digested following standard CRL 200.2 hot block digestion protocols (CRL SOP METALS025) on April 5, 2004 (digestion batch ED40202). All analyses were performed between April 6 and 12, 2004 using 200.9 methods (CRL SOP METALS017 and METALS019) using multi-element programs except for antimony and thallium. Thallium was analyzed using the single element program (SimAA 6000). Antimony was analyzed using the AAnalyst 800 (CRL SOP METALS 019). The concentrations for the LCS and matrix spike were changed in a memo from Dr. J. V. Morris of CRL on September 11, 2002. QC limits are based on ESAT control charts; CRL default limits are used if ESAT limits are greater than CRL limits.

Samples E403002-02 and -03 are field duplicates and show good correlation for all elements. Because reported QC values are less than 5 times the MDL for all elements, the duplicate difference criteria are used for control purposes for all elements; all matrix duplicates are flagged "<5X" in LIMS. Duplicate RPDs reported by LIMS are calculated incorrectly due to significant figures used in the calculation. All QC were within limits. All samples were analyzed within the holding time limit.

Non-detect results are reported to the reporting limit (RL). The following result between the method detection limit (MDL) and the RL is reported as the instrument value with a "J" flag and is considered estimated: E403002-03 for lead. The presence of interference required some samples to be diluted in order to meet analytical spike recovery criteria. The following reported values are adjusted for dilution: E403002-02, -03 and -06 for antimony; E403002-01 and -03 for arsenic; E403002-03 for selenium; E403002-02, -03 and -06 for thallium. All other sample results are acceptable. Where appropriate, reported values are dilution corrected.

QC reports which include analytical QC are provided as Lotus spreadsheets. Logbook entries for this metals analysis can be found in Alion logbook C31845 pages 11-12.

4-20-04

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-20-04 15:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE04 S01	E403002-01	Water	Mar-30-04 10:40	Mar-31-04 12:53
2004IE04 S02	E403002-02	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 D02	E403002-03	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 S03	E403002-04	Water	Mar-30-04 11:55	Mar-31-04 12:53
2004IE04 R01	E403002-05	Water	Mar-30-04 12:00	Mar-31-04 12:53
2004IE04 S04	E403002-06	Water	Mar-30-04 14:30	Mar-31-04 12:53

000007

4-20-04

Stephen Connet, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	Reported: Apr-20-04 15:08

Metals by GFAA
Alion - ESAT Contract

2004IE04 S01 (E403002-01) Water Sampled: Mar-30-04 10:40 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1	4	ug/L	1	ED40202	Apr-05-04	Apr-12-04
Arsenic	U		1.0	4.0	"	2	"	"	Apr-06-04
Lead	U		0.5	2.0	"	1	"	"	Apr-07-04
Selenium	U		1.0	4.0	"	"	"	"	Apr-06-04
Thallium	U		0.5	2.0	"	"	"	"	Apr-12-04

2004IE04 S02 (E403002-02) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		2	8	ug/L	2	ED40202	Apr-05-04	Apr-12-04
Arsenic	U		0.5	2.0	"	1	"	"	Apr-06-04
Lead	U		0.5	2.0	"	"	"	"	Apr-07-04
Selenium	U		1.0	4.0	"	"	"	"	Apr-06-04
Thallium	U		1.0	4.0	"	2	"	"	Apr-12-04

2004IE04 D02 (E403002-03) Water Sampled: Mar-30-04 13:40 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		3	12	ug/L	3	ED40202	Apr-05-04	Apr-12-04
Arsenic	U		1.0	4.0	"	2	"	"	Apr-06-04
Lead	0.6	J	0.5	2.0	"	1	"	"	Apr-07-04
Selenium	U		2.0	8.0	"	2	"	"	Apr-06-04
Thallium	U		1.0	4.0	"	"	"	"	Apr-12-04

2004IE04 S03 (E403002-04) Water Sampled: Mar-30-04 11:55 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1	4	ug/L	1	ED40202	Apr-05-04	Apr-12-04
Arsenic	U		0.5	2.0	"	"	"	"	Apr-06-04
Lead	2.1		0.5	2.0	"	"	"	"	Apr-07-04
Selenium	U		1.0	4.0	"	"	"	"	Apr-06-04
Thallium	U		0.5	2.0	"	"	"	"	Apr-12-04

4-20-04

000008

Stephen Conner, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-20-04 15:08

Metals by GFAA
Alion - ESAT Contract

2004IE04 R01 (E403002-05) Water Sampled: Mar-30-04 12:00 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1	4	ug/L	1	ED40202	Apr-05-04	Apr-12-04
Arsenic	U		0.5	2.0	"	"	"	"	Apr-06-04
Lead	U		0.5	2.0	"	"	"	"	Apr-07-04
Selenium	U		1.0	4.0	"	"	"	"	Apr-06-04
Thallium	U		0.5	2.0	"	"	"	"	Apr-12-04

2004IE04 S04 (E403002-06) Water Sampled: Mar-30-04 14:30 Received: Mar-31-04 12:53

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		2	8	ug/L	2	ED40202	Apr-05-04	Apr-12-04
Arsenic	U		1.0	4.0	"	"	"	"	Apr-06-04
Lead	U		0.5	2.0	"	1	"	"	Apr-07-04
Selenium	U		1.0	4.0	"	"	"	"	Apr-06-04
Thallium	U		1.0	4.0	"	2	"	"	Apr-12-04

4-20-04

000009

Stephen Connor, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-20-04 15:08

Notes and Definitions

< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

4-20-04

000010

Stephen Connet, Chemist

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Apr-20-04 15:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE04 S01	E403002-01	Water	Mar-30-04 10:40	Mar-31-04 12:53
2004IE04 S02	E403002-02	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 D02	E403002-03	Water	Mar-30-04 13:40	Mar-31-04 12:53
2004IE04 S03	E403002-04	Water	Mar-30-04 11:55	Mar-31-04 12:53
2004IE04 R01	E403002-05	Water	Mar-30-04 12:00	Mar-31-04 12:53
2004IE04 S04	E403002-06	Water	Mar-30-04 14:30	Mar-31-04 12:53

4-20-04

000011

Stephen Gonnet, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 0 7 2004

Subject: Review of Region 5 Data for **Carlstrom LF**

From: **Stephen Connet, Chemist, Alion Science and Technology/ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on 6-3-04

To: Illinois EPA

Attached are the results for: **Carlstrom LF**

CRL data set numbers: **E405002**

Samples analyzed for: **Total Cyanide**

Results are reported for sample designations: **E405002-01 thru -02**

JUN 0 9 2004

Sylvia Griffin JUN 0 7 2004

Data Management Coordinator and Date Received

Date Transmitted: JUN 0 7 2004

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Attached are the results for: **Carlstrom LF**

CRL data set numbers: **E405002**

Samples analyzed for: **Total Cyanide**

Results are reported for sample designations: **E405002-01 thru -02**

Rev. 4/10/02

Method: 335.2 (CRL SOP AIG025)
Site: Carlstrom LF
Date: May 20, 2004
Prepared by: Stephen Connet

TDF: 5-22-017
Alion Job #: 246-0-1476-202-075-002
Task Order #: 05-1-22
Data Set: E405002

NARRATIVE

Two (2) water samples from the Carlstrom LF site were collected on May 5, 2004 and were received by CRL properly preserved on May 6, 2004. The sample points are identified on the following page.

The samples were checked with lead acetate and potassium iodide starch papers with negative results. The samples were distilled following the MIDI distillation method using the EasyStill distillation apparatus on May 17, 2004 (distillation batch EE41801). The samples were analyzed on May 18, 2004 for total cyanide using a Lachat QuickChem AE Autoanalyzer according to CRL SOP AIG025 (method 335.2). Control limits are based on ESAT control charts; CRL default limits are used if ESAT limits are greater than CRL limits. All samples were analyzed within the 14-day holding time limit.

Sample E405002-02 is a field blank and does not show any contamination.

Because reported QC values are less than 5 times the MDL, the duplicate difference criteria are used for control purposes; duplicate EE41801-DUP1 is flagged "<5X" in LIMS. All QC audits were in control. All results are acceptable. A control sample was distilled, diluted 1:1 and analyzed with the batch. No acceptance criteria have been established for the sample. The certified value supplied by the manufacturer was used for evaluation purposes. Non-detect results are reported to the reporting limit (RL; ESAT RL = 8 ug/L).

QC reports which include analytical QC are provided as Lotus spreadsheets. Logbook entries for this cyanide analysis can be found in Alion logbook C31640 page 17.

6-3-04

ALION
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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** May-28-04 15:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE05 S01-G205	E405002-01	Water	May-05-04 10:50	May-06-04 13:34
2004IE05 R01-G205	E405002-02	Water	May-05-04 18:15	May-06-04 13:34

5-28-04

Stephen Connet, Chemist

000006

ALION
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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** May-28-04 15:56

Automated Colorimetric Analyses
Alion - ESAT Contract

2004IE05 S01-G205 (E405002-01) Water Sampled: May-05-04 10:50 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U		2	8	ug/L	1	EE41801	May-18-0	May-18-04

2004IE05 R01-G205 (E405002-02) Water Sampled: May-05-04 18:15 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U		2	8	ug/L	1	EE41801	May-18-0	May-18-04

000007

5-28-04

Stephen Connet, Chemist

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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Carlstrom Landfill	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	May-28-04 15:56

Notes and Definitions

< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

000008

5-28-04

Stephen Connet, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 1 0 2004

Subject: Review of Region 5 Data for **Carlstrom Landfill (Rockdale, IL)**

From: **Marjorie Mattox, Chemist, ESAT/ALION**
Contractor to Region 5 Central Regional Laboratory
Submitted to EPA: Marjorie L. Mattox, 6-10-04

To: Bob Casper
IEPA

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)**

CRL data set number: **E405002**

Samples analyzed for: **ICP Metals**

Results are reported for sample designations: **E405002-01, -02**

JUN 1 6 2004

Sylvia Griffin JUN 1 0 2004

Data Management Coordinator and Date Received

Date Transmitted: JUN 1 0 2004 / /

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____ / /

Received by and Date

Comments:

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)**

CRL data set number: **E405002**

Samples analyzed for: **ICP Metals**

Results are reported for sample designations: **E405002-01, -02**

Rev. 4/10/02

Parameter: ICP Metals
Method: CRL Metals 003 & Metals 025
Analyst: M. Mattox M. Mattox
Date: June 9, 2004 6-9-04

Work Order: E405002 000006
TDF: 5-22-017
Task Order: 05-1-22
JOB: 246-0-1476-202-075-002

ICP NARRATIVE

This narrative covers the analysis of 2 water samples from the Carlstrom Landfill site. Two water samples were submitted to ESAT for ICP metals analysis. The samples were collected on May 5, 2004. The samples were received properly preserved on May 6, 2004.

For a more detailed listing of sample ID, laboratory ID, field station ID, and sampling dates, refer to the Work Order pages and/or the initial LIMS report pages where such listings can be found.

Routine CRL SOP Metals 025 (water) was used to prepare the water samples for ICP analysis. The samples were digested on May 25, 2004 as LIMS batch EE42407. Analysis was completed on May 27, 2004. All samples were analyzed within the holding time limit.

Analysis QC background information

On April 20, 2004 a digestion batch of two MDL solutions was digested. The two solutions with two different concentration sets were prepared using the Optima 3300 RL solution of December 31, 2003. These solutions were analyzed on April 22, 2004 on the Optima 4300. Further work is needed to meet some requirements for the MDL's and RL's. MDL's and RL's used for the reporting of these results are interim. Also, problems were encountered with K which required ESAT to default to the EPA MDL and RL for these analytes. All interim MDL's and RL's will be updated as soon as the opportunity arises.

Due to the development of new MDL's and time constraints for the reporting of final results four different reporting limit solutions were used. Each solution is used for different analytes. A listing of analytes used for each solution can be found in the QC summary section of this report.

29 to 31 analyte lines out of a possible 78 lines available using the Optima 4300 DV method were chosen by a plan agreed upon by Dr. J. V. Morris. These are to be used for routine reporting of analyte values that appear in the QA summary reports.

Analysis E405002 run results - Optima 4300 DV

The following analytes will not be addressed, all other analytes will be discussed in this case narrative:

As, Ce, Li, Pb, Sb, Se, Ti, Tl, Y

CRL limits were used for the evaluation of the data due to ESAT just beginning use of the Optima 4300. ESAT limits will be established as data is collected. All instrument and preparation blank data are being recorded but the limits for blanks will always be the MDL.

The following lists the case pertinent out-of-control QC audit check results based on default QA / QC (traditional) limits:

E405002 analysis :

Instrument QC:

05/27/04 analysis:

Blanks: (Blank values are rounded)

Instr. Blk 1:	Co228	-0.50	ug/L
	Cr267	-2.75	"
	Fe259	-31.27	"
	K766	-985.04	"
Instr. Blk 2:	Cr267	-2.63	"
	Cu327	1.92	"
	Na589	71.48	"

			Percent deviation
LCM1's:	LCM1 1:	Ag328	++
		K766	***, 13.94
			Percent deviation
	LCM1 2:	Ag328	++
		K766	***, 37.96

++ upper concentration level exceeded ; LCM2 check audits used for control purposes

*** level used for control purposes for sample values less than 10,000 ug/l, Hi AQC used for sample values greater than 10,000 ug/l.

Matrix QC:

Preparation Blank:	EE42407-BLK1:	Co228	-0.30	ug/L
		Cr267	-3.43	"
		Fe259	-29.69	"
		V292	1.27	"
Matrix Duplicate:	EE42407-DUP1:	Ni231	*, 14.4	% RPD
		Al396	<5X	
		Ag328, Be313, Cd226, Co228, V292; <5X (difference)		

The LIMS report listed <5X for EE42407-DUP1 Al to indicate that the duplicate RPD is higher than the upper limit but since one or both of the duplicate concentration values was less than 5 times the method detection limit, the duplicate difference was used for QC evaluation purposes.

<5X was also used to point out that the duplicate difference was used for QC evaluation purposes, the RPD was not always listed on the LIMS report.

The "*" indicates that a duplicate QC audit was out of control.

Matrix Spike:	EE42407-MS1:	Ca315	#
		Mg279	#
		Na589	#

M. Mattos 6-9-04

audit not valid; sample concentration is greater than twice the spike concentration. The blank spike is used for validation purposes for these analytes.

Sample analyte qualifications:

Compilation of control chart information is on-going for all check audits from Optima 4300 analysis runs. Data is currently being gathered for all QA audits.

The ICP sample results reported are acceptable except as noted in the following paragraphs.

For Ag, LCM2 QA check audits were used for control purposes rather than LCM1 check audits since the level of Ag in the LCM1 solutions exceed the upper linear limit for Ag.

For Al, the sample result for E405002-01 is flagged "J" since the value was between the MDL and RL.

For Co, the sample result for E405002-01 is flagged "J" since the value was between the MDL and RL. Also for Co, instrument blank #1 and EE42407-BLK1 showed negative results with absolute values greater than the MDL. A positive result affected by the blank, E405001-01, is flagged "L" due to the possible low bias.

For Fe, all sample results were reported from the 259 line.

For K, all LCM1 results showed values which were above the upper control limit. Sample E405002-01 was greater than 10,000 ug/L and was therefore not affected. Sample E405002-02 was a non-detect and per Dr. John Morris, non-detects are not affected by the high bias observed in the LCM1.

For Mg, the sample result for E405002-02 and the preparation blank EE42407-BLK1, were reported from the Mg280 line, all other results were reported from the Mg279 line.

For Mn, sample result E405002-02 is flagged "J" since the value was between the MDL and RL.

For Na, one instrument blank showed a value which was greater than the MDL indicating possible contamination. Sample E405002-02 is flagged "K" due to possible contamination. Sample E405002-01 and EE42407-DUP1 were analyzed at a 2X dilution due to the initial result being above the calibration range. EE42407-MS1 was not reanalyzed at a dilution due to the level of Na in the sample being greater than two times the level of the spike added.

For Ni, the duplicate EE42407-DUP1 RPD showed a result which was outside of the control limits. Therefore all samples are flagged "*" due to possible poor precision. Also for Ni, sample result E405002-01 is flagged "J" since the value was between the MDL and RL.

All flagged results are considered estimated. All sample results are usable.

Other comments

It has been observed that some LIMS report RPD calculations do not match all of our in house RPD calculations due to the number of significant figures used in the calculations.

Samples E405002-02 is a field blank which showed results above the MDL for Ca, Mg, Mn, and Na. No qualification is made on the basis of field QC.

M. Mutto 6-9-04

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Carlstrom Landfill	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jun-09-04 16:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE05 S01-G205	E405002-01	Water	May-05-04 10:50	May-06-04 13:34
2004IE05 R01-G205	E405002-02	Water	May-05-04 18:15	May-06-04 13:34

M. Mattox 6-9-04
Margie Mattox, Chemist

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Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	Reported: Jun-09-04 16:03

Metals by ICP
Alion - ESAT Contract

2004IE05 S01-G205 (E405002-01) Water Sampled: May-05-04 10:50 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**39.9**	J	28.0	80.0	ug/L	1	EE42407	May-25-0	May-27-04
Barium	**61.2**		0.5	2.0	"	"	"	"	"
Beryllium	**U**		0.2	1.0	"	"	"	"	"
Cadmium	**U**		0.4	1.0	"	"	"	"	"
Calcium	**207000**		35.0	100	"	"	"	"	"
Chromium	**44.5**		2.0	4.0	"	"	"	"	"
Cobalt	**1.2**	J, L	0.3	2.0	"	"	"	"	"
Copper	**88.3**		1.8	6.0	"	"	"	"	"
Iron	**1070**		4.0	30.0	"	"	"	"	"
Magnesium	**118000**		18.0	40.0	"	"	"	"	"
Manganese	**8.1**		0.2	1.0	"	"	"	"	"
Nickel	**6.3**	J, *	0.6	10.0	"	"	"	"	"
Potassium	**14200**		660	2000	"	"	"	"	"
Silver	**U**		1.0	4.0	"	"	"	"	"
Sodium	**247000**		112	800	"	2	"	"	May-27-04
Vanadium	**U**		1.2	10.0	"	1	"	"	May-27-04
Zinc	**53.7**		10.0	30.0	"	"	"	"	"

2004IE05 R01-G205 (E405002-02) Water Sampled: May-05-04 18:15 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**U**		28.0	80.0	ug/L	1	EE42407	May-25-0	May-27-04
Barium	**U**		0.5	2.0	"	"	"	"	"
Beryllium	**U**		0.2	1.0	"	"	"	"	"
Cadmium	**U**		0.4	1.0	"	"	"	"	"
Calcium	**417**		35.0	100	"	"	"	"	"
Chromium	**U**		2.0	4.0	"	"	"	"	"
Cobalt	**U**		0.3	2.0	"	"	"	"	"
Copper	**U**		1.8	6.0	"	"	"	"	"
Iron	**U**		4.0	30.0	"	"	"	"	"
Magnesium	**215**		7.0	20.0	"	"	"	"	"
Manganese	**0.3**	J	0.2	1.0	"	"	"	"	"
Nickel	**U**	*	0.6	10.0	"	"	"	"	"
Potassium	**U**		660	2000	"	"	"	"	"
Silver	**U**		1.0	4.0	"	"	"	"	"

M. Mattox 6-9-04
Margie Mattox, Chemist

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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Jun-09-04 16:03

Metals by ICP
Alion - ESAT Contract

20041E05 R01-G205 (E405002-02) Water Sampled: May-05-04 18:15 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Sodium	712	K	56.0	400	ug/L	1	EE42407	May-25-0	May-27-04
Vanadium	U		1.2	10.0	"	"	"	"	"
Zinc	U		10.0	30.0	"	"	"	"	"

M. Mattox 6-9-04
Margie Mattox, Chemist

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Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Jun-09-04 16:03

Notes and Definitions

#	Spike audit not valid. The sample concentration exceeds twice the concentration of the spike added. No qualification made for this QC audit.
*	The duplicate analysis precision is not within control limits. The reported value is estimated.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
U	Not Detected
NR	Not Reported

M. Mattox 6-9-04
Margie Mattox, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 1 5 2004

Subject: Review of Region 5 Data for **Carlstrom Landfill (Rockdale, IL)**

From: **Richard Baltrus, Chemist, Alion Science and Technology/ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on Richard A. Baltrus 15 June 2004

To: Bob Casper
IEPA

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)**

CRL data set number: **E405002**

Samples analyzed for: **Mercury**

Results are reported for sample designations: **E405002-01 and E405002-02**

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Sylvia Griffin JUN 15 2004

Data Management Coordinator and Date Received

Date Transmitted: JUN 15 2004

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Attached are the results for: **Carlstrom Landfill (Rockdale, IL)**

CRL data set number: **E405002**

Samples analyzed for: **Mercury**

Results are reported for sample designations: **E405002-01 and E405002-02**

Parameter: Mercury
Method: 245.2*DNS (AIG044 dated 02/20/04)
Analyst: Richard Baltrus
Date: June 3, 2004

Data Set: E405002
TDF: 5-22-017
JOB: 246-0-1476-202-075-002
Task Order: 05-1-22

NARRATIVE

Two (2) water samples from Carstrom Landfill (Rockdale, IL) site were collected on May 5, 2004. The samples were received properly preserved to a pH of (1) on May 6, 2004. The samples were received at a temperature of 1.4°C.

For a more detailed listing of the sample ID, laboratory ID, field station ID and sample dates, refer to the work order pages and /or initial LIMS report where these listings could be found.

The preserved water samples were manually digested on May 27, 2004. All digestion sample tubes were capped during the digestions. Hydroxylamine solution was manually added prior to analysis on May 28, 2004 as LIMS batch EE42702.

Because the reported QC values are less than 5x the MDL, the duplicate difference criteria are used for control purposes, the duplicate EE42702-DUP1 is flagged "<5x". All the QC data were within the control limits; therefore, the results are acceptable. All samples were analyzed within the 28 day holding time limit.

Matrix and digestion QC and sample results are found as LIMS reports. A QC summary is in a separate Lotus 1-2-3 report. Details of this analysis can be found in the Alion Science and Technology logbook number C31846 pages 21 and 22.

8 June 2004

ALION
SCIENCE AND TECHNOLOGY

Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Jun-09-04 14:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE05 S01-G205	E405002-01	Water	May-05-04 10:50	May-06-04 13:34
2004IE05 R01-G205	E405002-02	Water	May-05-04 18:15	May-06-04 13:34

Richard Baltrus, Chemist 9 June 2004

ALION
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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Jun-09-04 14:43

Cold Vapor Analyses
Alion - ESAT Contract

2004IE05 S01-G205 (E405002-01) Water Sampled: May-05-04 10:50 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	EE42702	May-27-0	May-28-04

2004IE05 R01-G205 (E405002-02) Water Sampled: May-05-04 18:15 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Mercury	U		0.1	0.5	ug/L	1	EE42702	May-27-0	May-28-04

Richard Baltrus, Chemist

ALION
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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Jun-09-04 14:43

Notes and Definitions

< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

9 June 2004
Richard Baltrus, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 1 5 2004

Subject: Review of Region 5 Data for **Carlstrom Landfill**

From: **Stephen Connet, Chemist, Alion Science and Technology / ESAT**
Contractor to Region 5 Central Regional Laboratory
Submitted to CRL on 6-15-04

To: Bob Casper
IEPA

Attached are the results for: **Carlstrom Landfill**

CRL data set numbers: **E405002**

Samples analyzed for: **GFAA Antimony, Arsenic, Lead, Selenium, Thallium**

Results are reported for sample designations: **E405002-01 and -02**

Sylvia Griffin JUN 15 2004

Data Management Coordinator and Date Received

Date Transmitted: JUN 15 2004

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____ / /

Received by and Date

Comments:

Attached are the results for: **Carlstrom Landfill**

CRL data set numbers: **E405002**

Samples analyzed for: **GFAA Antimony, Arsenic, Lead, Selenium, Thallium**

Results are reported for sample designations: **E405002-01 and -02**

Rev. 4/10/02

Method: 200.9 (GFAA Metals)
Site: Carlstrom Landfill
Date: June 4, 2004
Prepared by: Stephen Connet

TDF: 5-22-017
Alion Job #: 246-0-1476-202-075-002
Task Order #: 05-1-22
Data Set: E405002

NARRATIVE

Two (2) water samples from the Carlstrom Landfill site were collected on May 5, 2004 and were received properly preserved by CRL on May 6, 2004. The samples were submitted to ESAT for analysis of antimony, arsenic, lead, selenium, and thallium by GFAA. Cadmium is reported from ICP. The sample point identifications are on the first page of the LIMS report following this narrative.

The water samples were digested following standard CRL 200.2 hot block digestion protocols (CRL SOP METALS025) on May 25, 2004 (digestion batch EE42407). Redigestion (digestion batch EF40101, June 1, 2004) was performed due to lead matrix duplicate failure and selenium matrix spike failure. All analyses were performed between May 26 and June 4, 2004 using 200.9 methods (CRL SOP's METALS017) using multi-element programs except for antimony and thallium, which were analyzed using the single element programs. The concentrations for the LCS and matrix spike were changed in a memo from Dr. J. V. Morris of CRL on September 11, 2002. QC limits are based on ESAT control limits; CRL default limits are used if ESAT limits are greater than CRL limits.

Sample E405002-02 is a field blank which does not show any contamination. Because reported QC values are less than 5 times the MDL for all elements except lead, the duplicate difference criteria are used for control purposes for all elements except lead; all matrix duplicates except lead are flagged "<5X" in LIMS. The matrix spike recovery for selenium was less than the lower limit for the first digest; selenium results are acceptable and reported from the second digest. The duplicate RPD for lead was above the upper limit in the first digest; lead results are acceptable and reported from the second digest. All other QC were within limits. All samples were analyzed within the holding time limit.

Non-detect results are reported to the reporting limit (RL). The presence of interference required some samples to be diluted in order to meet analytical spike recovery criteria. The following reported value is adjusted for dilution: E405002-01 for selenium. All sample results are acceptable. Where appropriate, reported values are dilution corrected.

QC reports which include analytical QC are provided as Lotus spreadsheets. Logbook entries for this metals analysis can be found in Alion logbook C31845 pages 16-17.

6-14-04

000005

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Alion Science and Technology ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Jun-08-04 12:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2004IE05 S01-G205	E405002-01	Water	May-05-04 10:50	May-06-04 13:34
2004IE05 R01-G205	E405002-02	Water	May-05-04 18:15	May-06-04 13:34

6-8-04

000006

Stephen Connet, Chemist

ALION
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536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Carlstrom Landfill Project Number: [none] Project Manager: Howard Pham	**Reported:** Jun-08-04 12:39

Metals by GFAA
Alion - ESAT Contract

2004IE05 S01-G205 (E405002-01) Water Sampled: May-05-04 10:50 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1.0	4.0	ug/L	1	EE42407	May-25-0	Jun-02-04
Arsenic	U		0.5	2.0	"	"	"	"	May-26-04
Lead	6.0		0.5	2.0	"	"	EF40101	Jun-01-04	Jun-04-04
Selenium	U		2.0	8.0	"	2	"	"	Jun-03-04
Thallium	U		0.5	2.0	"	1	EE42407	May-25-0	Jun-01-04

2004IE05 R01-G205 (E405002-02) Water Sampled: May-05-04 18:15 Received: May-06-04 13:34

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Antimony	U		1.0	4.0	ug/L	1	EE42407	May-25-0	Jun-02-04
Arsenic	U		0.5	2.0	"	"	"	"	May-26-04
Lead	U		0.5	2.0	"	"	EF40101	Jun-01-04	Jun-04-04
Selenium	U		1.0	4.0	"	"	"	"	Jun-03-04
Thallium	U		0.5	2.0	"	"	EE42407	May-25-0	Jun-01-04

6-8-04

000007

Stephen Conner, Chemist

ALION
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Telephone (312) 353-8302 Facsimile (312) 353-8307

Superfund, US EPA Region 5	Project: Carlstrom Landfill	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jun-08-04 12:39

Notes and Definitions

< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

6-8-04

000008

Stephen Connet, Chemist

DATE: June 21, 2004

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Carlstrom Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
32841	Ceimic	6	E0003	Water

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

RECEIVED
JUN 24 2004

JUN 2 1 2004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on May 28, 2004

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Carlstrom Landfill (IL)

CASE NUMBER: 32841 SDG NUMBER: E0003

.umber and Type of Samples: 6 Waters

Sample Numbers: E0003, E0006, E0007, E0009 - E0011

Laboratory: Ceimic Hrs. for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number : 32841 SDG Number: E0003
Site Name: CARLSTROM LANDFILL (IL) Laboratory: CEIMIC

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six (6) water samples, numbered *E0003, E0006, E0007* and *E0009* through *E0011*, were collected on *May 4, 2004*. The lab received the samples on *May 6, 2004* in good condition. All samples were analyzed for the volatile list of organic analytes. Four (4) samples; E0003, E0007, E0009 and E0010, were analyzed for the semivolatile and the pesticide/PCB lists of organic analytes. All were analyzed according to CLP SOW *OLM04.3*.

Reviewed By: Allison Harvey/Alion - ESAT
Date: June 17, 2004

Case Number : 32841 SDG Number: E0003
S e Name: CARLSTROM LANDFILL (IL) Laboratory: CEIMIC

1. HOLDING TIME

The following semivolatile water samples are outside primary extraction holding time criteria. Hits are qualified "J" and non-detects are qualified "UJ" unless otherwise qualified for additional problems.

E0009RE

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

Semivolatile IPC associated with an initial calibration has percent relative abundance out of criteria. The m/e 443 ratio was below the lower limit of 15.0% but the 442/443 mass ratio was within the acceptance range of 15.0 - 24.0%. (The m/e ratios for 198/199 and 442/443 are critical because they are based on the natural abundances of Carbon-12 and Carbon-13 and should always be met.) All of the following samples from the analytical run may be affected. Hits and non-detects are not flagged.

E0003, E0003MS, E0003MSD, E0007, E0009, E0010, SBLKKO

3. CALIBRATION

ıe following volatile samples are associated with a continuing calibration whose corresponding ınitial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

1,2-Dibromo-3-chloropropane
E0003, E0003MS, E0003MSD, E0006, E0007, E0009, E0010, E0011, VBLKLV, VBLKLW, VHBLK01

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Chloromethane, Chloroethane, Trichlorofluoromethane
E0011, VBLKLW, VHBLK01

Acetone, 2-Butanone, 2-Hexanone
E0003, E0003MS, E0003MSD, E0006, E0007, E0009, E0010, E0011, VBLKLV, VBLKLW, VHBLK01

The following volatile samples are associated with a continuing calibration relative response factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

1,2-Dibromo-3-chloropropane
E0003, E0003MS, E0003MSD, E0006, E0007, E0009, E0010, E0011, VBLKLV,

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VBLKLW, VHBLK01

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Benzaldehyde
E0003, E0003MS, E0003MSD, E0007, E0009, E0009RE, E0010, SBLKDD, SBLKKO

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ" unless otherwise qualified for additional problems.

Phenol, 2,2-oxybis(1-Chloropropane)
E0003, E0003MS, E0003MSD, E0007, E0009, E0009RE, E0010, SBLKDD, SBLKKO

bis(2-Chloroethyl)ether, bis(2-Chloroethoxy)methane, 4-Nitrophenol
E0003, E0003MS, E0003MSD, E0007, E0009, E0010, SBLKKO

Hexachlorobutadiene, Hexachlorocyclopentadiene, 4-Chlorophenyl-phenylether, Atrazine
E0009RE, SBLKDD

The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Hits and non-detects are not qualified based on the RRF or %D of surrogate/DMC data alone.

Phenol-d5, 2-Fluorophenol
E0009RE, SBLKDD

2,4,6-Tribromophenol
E0003, E0003MS, E0003MSD, E0007, E0009, E0010, SBLKKO

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride
E0003MS, E0003MSD

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S e Name: CARLSTROM LANDFILL (IL) Laboratory: CEIMIC

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile samples have either one acid or one base/neutral surrogate recovery below the lower QC limit. Samples are qualified only if two or more recoveries of either fraction are outside the QC acceptance limits or a %recovery is less than 10%.

E0009, E0009RE

The following semivolatile samples have acid surrogate recoveries of less than 10%. Hits are qualified "J" and non-detects are qualified "R".

E0009, E0009RE

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects found.

7. FIELD BLANK AND FIELD DUPLICATE

Sample *E0006* is a trip blank. Sample E0006 contained no volatile target analytes or TICs.

Sample *E0007* is a field blank. Sample E0007 contained no volatile target analytes or TICs, two (2) semivolatile TICs and no pesticide target analytes.

No samples were identified as field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No defects found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0009
Carbon Disulfide

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Site Name: CARLSTROM LANDFILL (IL) Laboratory: CEIMIC

VBLKLV
Methylene Chloride

VBLKLW
1,2,4-Trichlorobenzene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0009
Caprolactam

E0009RE
Caprolactam, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are qualified "J".

E0003MS, E0003MSD
Endosulfan sulfate

. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0003, E0003MS, E0003MSD, E0006, E0007, E0009, E0010, E0011, VBLKLV, VBLKLW, VHBLK01

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0003, E0003MS, E0003MSD, E0007, E0009, E0009RE, E0010, SBLKDD, SBLKKO

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0003, E0003MS, E0003MSD, E0007, E0010, PBLK01

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CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0003

Sample Type: Spike Original
Lab ID: CEIMIC
Case No.: 32841
SDG No.: E0003

Location: G103
Matrix/Level: Water/Low
File Name: E0003

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*
	UNKNOWN SILOXANE	4.46	160	J
541026	CYCLOPENTASILOXANE, DECAMETHYL-	5.35	47	NJ
540976	CYCLOHEXASILOXANE, DODECAMETHYL-	6.26	16	NJ

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0007

Sample Type: Field Blank
Lab ID: CEIMIC
Case No.: 32841
SDG No.: E0003

Location: FIELD BLANK
Matrix/Level: Water/Low
File Name: E0003

AS No.	Compound Name	RT	Concentration (UG/L)	Q*
541026	CYCLOPENTASILOXANE, DECAMETHYL-	5.35	51	NJ
540976	CYCLOHEXASILOXANE, DODECAMETHYL-	6.26	17	NJ

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E0009

Sample Type: Routine Sample
Lab ID: CEIMIC
Case No.: 32841
SDG No.: E0003

Location: G104
Matrix/Level: Water/Low
File Name: E0003

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*
2440224	DROMETRIZOLE	9.87	34	NJ

*Q: Laboratory Qualifier

Semivolatile Sample Analysis
Tentatively Identified Compounds

		Sample No.:	E0009RE
Sample Type:	Routine Sample		
Lab ID:	CEIMIC	Location:	G104
Case No.:	32841	Matrix/Level:	Water/Low
SDG No.:	E0003	File Name:	E0003

CAS No.	Compound Name	RT	Concentration (UG/L)	Q*
	UNKNOWN ALCOHOL/ALKENE	5.26	4	J
	UNKNOWN	5.39	4	J
	UNKNOWN	5.71	2	J
	UNKNOWN KETONE	6.69	2	J
	UNKNOWN	6.96	5	J
	UNKNOWN FATTY ACID	7.17	4	J
1526176	2-FLUORO-6-NITROPHENOL	7.25	4	NJ
	UNKNOWN FATTY ACID	7.87	15	J
	UNKNOWN	8.33	2	J
0000	PHENOL, 2-FLUORO-4-NITRO-	8.57	7	NJ
	UNKNOWN	8.71	6	J
	UNKNOWN	9.48	7	J
	UNKNOWN KETONE	12.79	6	J
2440224	DROMETRIZOLE	12.85	27	NJ
	UNKNOWN	17.04	3	J

*Q: Laboratory Qualifier

Analytical Results (Qualified Data)

Case # 32841 SDG : E0003
Site : CARLSTROM LANDFILL
Lab : CEIMIC
Reviewer
Date

Number of Soil Samples 0
Number of Water Samples 6

Sample Number	E0003		E0003MS		E0003MSD		E0006		E0007	
Sampling Location	G103		G103		G103		TRIP BLANK-CEIMIC		FIELD BLANK	
Matrix	Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	5/4/2004		5/4/2004		5/4/2004		5/4/2004		5/4/2004	
Time Sampled	14:10		14:10		14:10		16:50		17:00	
%Moisture	N/A		N/A		N/A		N/A		N/A	
pH										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	10	U	10	U	10	U	10	U	10	U
CHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
VINYL CHLORIDE	10	U	10	U	10	U	10	U	10	U
BROMOMETHANE	10	U	10	U	10	U	10	U	10	U
CHLOROETHANE	10	U	10	U	10	U	10	U	10	U
TRICHLOROFLUOROMETHANE	10	U	10	U	10	U	10	U	10	U
1,1-DICHLOROETHENE	10	U	57		57		10	U	10	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	10	U	10	U	10	U	10	U	10	U
ACETONE	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
CARBON DISULFIDE	10	U	10	U	10	U	10	U	10	U
METHYL ACETATE	10	U	10	U	10	U	10	U	10	U
METHYLENE CHLORIDE	10	U	10	U	10	U	10	U	10	U
TRANS-1,2-DICHLOROETHENE	10	U	10	U	10	U	10	U	10	U
METHYL TERT-BUTYL ETHER	10	U	10	U	10	U	10	U	10	U
1-DICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
IS-1,2-DICHLOROETHENE	10	U	10	U	10	U	10	U	10	U
2-BUTANONE	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
CHLOROFORM	10	U	10	U	10	U	10	U	10	U
1,1,1-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
CYCLOHEXANE	10	U	10	U	10	U	10	U	10	U
CARBON TETRACHLORIDE	10	U	10	U	10	U	10	U	10	U
BENZENE	10	U	59		57		10	U	10	U
1,2-DICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
TRICHLOROETHENE	10	U	59		57		10	U	10	U
METHYLCYCLOHEXANE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROPROPANE	10	U	10	U	10	U	10	U	10	U
BROMODICHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
CIS-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
4-METHYL-2-PENTANONE	10	U	10	U	10	U	10	U	10	U
TOLUENE	10	U	58		57		10	U	10	U
TRANS-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
TETRACHLOROETHENE	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0003
Site : CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer :
Date :

Sample Number :	E0003		E0003MS		E0003MSD		E0006		E0007	
Sampling Location :	G103		G103		G103		TRIP BLANK-CEIMIC		FIELD BLANK	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004		5/4/2004		5/4/2004	
Time Sampled :	14:10		14:10		14:10		16:50		17:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
DIBROMOCHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
1,2-DIBROMOETHANE	10	U	10	U	10	U	10	U	10	U
CHLOROBENZENE	10	U	58		56		10	U	10	U
ETHYLBENZENE	10	U	10	U	10	U	10	U	10	U
XYLENES (TOTAL)	10	U	10	U	10	U	10	U	10	U
STYRENE	10	U	10	U	10	U	10	U	10	U
BROMOFORM	10	U	10	U	10	U	10	U	10	U
ISOPROPYLBENZENE	10	U	10	U	10	U	10	U	10	U
1,1,2,2-TETRACHLOROETHANE	10	U	10	U	10	U	10	U	10	U
1,3-DICHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
1,4-DICHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
1,2-DIBROMO-3-CHLOROPROPANE	10	R	10	R	10	R	10	R	10	R
2,4-TRICHLOROBENZENE	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case # 32841 SDG : E0003
Site : CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer :
Date :

Sample Number :	E0009		E0010		E0011		VBLKLV		VBLKLW	
Sampling Location :	G104		G101		G102					
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004					
Time Sampled :	14:45		18:00		18:00					
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	10	U	10	U	10	U	10	U	10	U
CHLOROMETHANE	10	U	10	U	10	UJ	10	U	10	UJ
VINYL CHLORIDE	10	U	10	U	10	U	10	U	10	U
BROMOMETHANE	10	U	10	U	10	U	10	U	10	U
CHLOROETHANE	10	U	10	U	10	UJ	10	U	10	UJ
TRICHLOROFLUOROMETHANE	10	U	10	U	10	UJ	10	U	10	UJ
1,1-DICHLOROETHENE	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	10	U	10	U	10	U	10	U	10	U
ACETONE	15	J	10	UJ	10	UJ	10	UJ	10	UJ
CARBON DISULFIDE	2	J	10	U	10	U	10	U	10	U
METHYL ACETATE	10	U	10	U	10	U	10	U	10	U
METHYLENE CHLORIDE	10	U	10	U	10	U	2	J	10	U
TRANS-1,2-DICHLOROETHENE	10	U	10	U	10	U	10	U	10	U
METHYL TERT-BUTYL ETHER	10	U	10	U	10	U	10	U	10	U
1-DICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
IS-1,2-DICHLOROETHENE	10	U	10	U	10	U	10	U	10	U
2-BUTANONE	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
CHLOROFORM	10	U	10	U	10	U	10	U	10	U
1,1,1-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
CYCLOHEXANE	10	U	10	U	10	U	10	U	10	U
CARBON TETRACHLORIDE	10	U	10	U	10	U	10	U	10	U
BENZENE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
TRICHLOROETHENE	10	U	10	U	10	U	10	U	10	U
METHYLCYCLOHEXANE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROPROPANE	10	U	10	U	10	U	10	U	10	U
BROMODICHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
CIS-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
4-METHYL-2-PENTANONE	10	U	10	U	10	U	10	U	10	U
TOLUENE	10	U	10	U	10	U	10	U	10	U
TRANS-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
TETRACHLOROETHENE	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0003
Site : CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer :
Date :

Sample Number :	E0009		E0010		E0011		VBLKLV		VBLKLW	
Sampling Location :	G104		G101		G102					
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004					
Time Sampled :	14:45		18:00		18:00					
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
DIBROMOCHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
1,2-DIBROMOETHANE	10	U	10	U	10	U	10	U	10	U
CHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
ETHYLBENZENE	10	U	10	U	10	U	10	U	10	U
XYLENES (TOTAL)	10	U	10	U	10	U	10	U	10	U
STYRENE	10	U	10	U	10	U	10	U	10	U
BROMOFORM	10	U	10	U	10	U	10	U	10	U
ISOPROPYLBENZENE	10	U	10	U	10	U	10	U	10	U
1,1,2,2-TETRACHLOROETHANE	10	U	10	U	10	U	10	U	10	U
1,3-DICHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
1,4-DICHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
1,2-DIBROMO-3-CHLOROPROPANE	10	R	10	R	10	R	10	R	10	R
2,4-TRICHLOROBENZENE	10	U	10	U	10	U	10	U	1	J

Analytical Results (Qualified Data)

Case # 32841 SDG : E0003
Site CARLSTROM LANDFILL
Lab. CEIMIC
Reviewer :
Date :

Sample Number :	VHBLK01									
Sampling Location										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
DICHLORODIFLUOROMETHANE	10	U								
CHLOROMETHANE	10	UJ								
VINYL CHLORIDE	10	U								
BROMOMETHANE	10	U								
CHLOROETHANE	10	UJ								
TRICHLOROFLUOROMETHANE	10	UJ								
1,1-DICHLOROETHENE	10	U								
1,1,2-TRICHLORO-1,2,2-TRIFLUORO	10	U								
ACETONE	10	UJ								
CARBON DISULFIDE	10	U								
METHYL ACETATE	10	U								
METHYLENE CHLORIDE	10	U								
TRANS-1,2-DICHLOROETHENE	10	U								
METHYL TERT-BUTYL ETHER	10	U								
1-DICHLOROETHANE	10	U								
IS-1,2-DICHLOROETHENE	10	U								
2-BUTANONE	10	UJ								
CHLOROFORM	10	U								
1,1,1-TRICHLOROETHANE	10	U								
CYCLOHEXANE	10	U								
CARBON TETRACHLORIDE	10	U								
BENZENE	10	U								
1,2-DICHLOROETHANE	10	U								
TRICHLOROETHENE	10	U								
METHYLCYCLOHEXANE	10	U								
1,2-DICHLOROPROPANE	10	U								
BROMODICHLOROMETHANE	10	U								
CIS-1,3-DICHLOROPROPENE	10	U								
4-METHYL-2-PENTANONE	10	U								
TOLUENE	10	U								
TRANS-1,3-DICHLOROPROPENE	10	U								
1,1,2-TRICHLOROETHANE	10	U								
TETRACHLOROETHENE	10	U								

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0003
Site : CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer :
Date :

Sample Number :	VHBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-HEXANONE	10	UJ								
DIBROMOCHLOROMETHANE	10	U								
1,2-DIBROMOETHANE	10	U								
CHLOROBENZENE	10	U								
ETHYLBENZENE	10	U								
XYLENES (TOTAL)	10	U								
STYRENE	10	U								
BROMOFORM	10	U								
ISOPROPYLBENZENE	10	U								
1,1,2,2-TETRACHLOROETHANE	10	U								
1,3-DICHLOROBENZENE	10	U								
1,4-DICHLOROBENZENE	10	U								
1,2-DICHLOROBENZENE	10	U								
1,2-DIBROMO-3-CHLOROPROPANE	10	R								
1,2,4-TRICHLOROBENZENE	10	U								

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0003
Site : CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer .
ate .

Number of Soil Samples 0
Number of Water Samples 4

Sample Number :	E0003		E0003MS		E0003MSD		E0007		E0009	
Sampling Location :	G103		G103		G103		FIELD BLANK		G104	
Matrix :	Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004		5/4/2004		5/4/2004	
Time Sampled :	14:10		14:10		14:10		17:00		14:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
PHENOL	10	UJ	46	J	48	J	10	UJ	10	R
BIS-(2-CHLOROETHYL)ETHER	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
2-CHLOROPHENOL	10	U	45		48		10	U	10	R
2-METHYLPHENOL	10	U	10	U	10	U	10	U	10	R
2,2'-OXYBIS(1- CHLOROPROPANE)	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
ACETOPHENONE	10	U	10	U	10	U	10	U	10	U
4-METHYLPHENOL	10	U	10	U	10	U	10	U	10	R
N-NITROSO-DI-N PROPYLAMINE	10	U	29		31		10	U	10	U
HEXACHLOROETHANE	10	U	10	U	10	U	10	U	10	U
NITROBENZENE	10	U	10	U	10	U	10	U	10	U
ISOPHORONE	10	U	10	U	10	U	10	U	10	U
2-NITROPHENOL	10	U	10	U	10	U	10	U	10	R
2,4-DIMETHYLPHENOL	10	U	10	U	10	U	10	U	10	R
BIS(2-CHLOROETHOXY)METHANE	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
4-DICHLOROPHENOL	10	U	10	U	10	U	10	U	10	R
NAPHTHALENE	10	U	10	U	10	U	10	U	10	U
4-CHLOROANILINE	10	U	10	U	10	U	10	U	10	U
HEXACHLOROBUTADIENE	10	U	10	U	10	U	10	U	10	U
CAPROLACTAM	10	U	10	U	10	U	10	U	1	J
4-CHLORO-3-METHYLPHENOL	10	U	52		55		10	U	10	R
2-METHYLNAPHTHALENE	10	U	10	U	10	U	10	U	10	U
HEXACHLOROCYCLO-PENTADIEN	10	U	10	U	10	U	10	U	10	U
2,4,6-TRICHLOROPHENOL	10	U	10	U	10	U	10	U	10	R
2,4,5-TRICHLOROPHENOL	25	U	25	U	25	U	25	U	25	R
1,1'-BIPHENYL	10	U	10	U	10	U	10	U	10	U
2-CHLORONAPHTHALENE	10	U	10	U	10	U	10	U	10	U
2-NITROANILINE	25	U	25	U	25	U	25	U	25	U
DIMETHYLPHTHALATE	10	U	10	U	10	U	10	U	10	U
2,6-DINITROTOLUENE	10	U	10	U	10	U	10	U	10	U
ACENAPHTHYLENE	10	U	10	U	10	U	10	U	10	U
3-NITROANILINE	25	U	25	U	25	U	25	U	25	U
ACENAPHTHENE	10	U	34		37		10	U	10	U

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0003
Site CARLSTROM LANDFILL
Lab. CEIMIC
Reviewer
Date

Sample Number :	E0003		E0003MS		E0003MSD		E0007		E0009	
Sampling Location :	G103		G103		G103		FIELD BLANK		G104	
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004		5/4/2004		5/4/2004	
Time Sampled :	14:10		14:10		14:10		17:00		14:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	25	U	25	U	25	U	25	U	25	R
4-NITROPHENOL	25	UJ	51	J	53	J	25	UJ	25	R
DIBENZOFURAN	10	U	10	U	10	U	10	U	10	U
2,4-DINITROTOLUENE	10	U	36		40		10	U	10	U
DIETHYLPHTHALATE	10	U	10	U	10	U	10	U	10	U
FLUORENE	10	U	10	U	10	U	10	U	10	U
4-CHLOROPHENYL-PHENYL ETHER	10	U	10	U	10	U	10	U	10	U
4-NITROANILINE	25	U	25	U	25	U	25	U	25	U
4,6-DINITRO-2-METHYLPHENOL	25	U	25	U	25	U	25	U	25	R
N-NITROSO DIPHENYLAMINE	10	U	10	U	10	U	10	U	10	U
4-BROMOPHENYL-PHENYLETHER	10	U	10	U	10	U	10	U	10	U
HEXACHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
ATRAZINE	10	U	10	U	10	U	10	U	10	U
PENTACHLOROPHENOL	25	U	61		67		25	U	25	R
PHENANTHRENE	10	U	10	U	10	U	10	U	10	U
ANTHRACENE	10	U	10	U	10	U	10	U	10	U
CARBAZOLE	10	U	10	U	10	U	10	U	10	U
DI-N-BUTYLPHTHALATE	10	U	10	U	10	U	10	U	10	U
FLUORANTHENE	10	U	10	U	10	U	10	U	10	U
PYRENE	10	U	39		45		10	U	10	U
BUTYLBENZYLPHTHALATE	10	U	10	U	10	U	10	U	10	U
3,3'-DICHLOROBENZIDINE	10	U	10	U	10	U	10	U	10	U
BENZO(A)ANTHRACENE	10	U	10	U	10	U	10	U	10	U
CHRYSENE	10	U	10	U	10	U	10	U	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	10	U	10	U	10	U	10	U
DI-N-OCTYLPHTHALATE	10	U	10	U	10	U	10	U	10	U
BENZO(B)FLUORANTHENE	10	U	10	U	10	U	10	U	10	U
BENZO(K)FLUORANTHENE	10	U	10	U	10	U	10	U	10	U
BENZO(A)PYRENE	10	U	10	U	10	U	10	U	10	U
INDENO(1,2,3-CD)-PYRENE	10	U	10	U	10	U	10	U	10	U
DIBENZO(A,H)-ANTHRACENE	10	U	10	U	10	U	10	U	10	U
BENZO(G,H,I)PERYLENE	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #. 32841 SDG : E0003
Site . CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer
Date :

Sample Number :	E0009RE		E0010		SBLKDD		SBLKKO			
Sampling Location .	G104		G101							
Matrix :	Water		Water		Water		Water			
Units	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	5/4/2004		5/4/2004							
Time Sampled	14:45		18:00							
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
BENZALDEHYDE	10	UJ	10	UJ	10	UJ	10	UJ		
PHENOL	10	R	10	UJ	10	UJ	10	UJ		
BIS-(2-CHLOROETHYL)ETHER	10	UJ	10	UJ	10	U	10	UJ		
2-CHLOROPHENOL	10	R	10	U	10	U	10	U		
2-METHYLPHENOL	10	R	10	U	10	U	10	U		
2,2'-OXYBIS(1- CHLOROPROPANE)	10	UJ	10	UJ	10	UJ	10	UJ		
ACETOPHENONE	10	UJ	10	U	10	U	10	U		
4-METHYLPHENOL	10	R	10	U	10	U	10	U		
N-NITROSO-DI-N PROPYLAMINE	10	UJ	10	U	10	U	10	U		
HEXACHLOROETHANE	10	UJ	10	U	10	U	10	U		
NITROBENZENE	10	UJ	10	U	10	U	10	U		
ISOPHORONE	10	UJ	10	U	10	U	10	U		
2-NITROPHENOL	10	R	10	U	10	U	10	U		
2,4-DIMETHYLPHENOL	10	R	10	U	10	U	10	U		
BIS(2-CHLOROETHOXY)METHANE	10	UJ	10	UJ	10	U	10	UJ		
2,4-DICHLOROPHENOL	10	R	10	U	10	U	10	U		
NAPHTHALENE	10	UJ	10	U	10	U	10	U		
4-CHLOROANILINE	10	UJ	10	U	10	U	10	U		
HEXACHLOROBUTADIENE	10	UJ	10	U	10	UJ	10	U		
CAPROLACTAM	2	J	10	U	10	U	10	U		
4-CHLORO-3-METHYLPHENOL	10	R	10	U	10	U	10	U		
2-METHYLNAPHTHALENE	10	UJ	10	U	10	U	10	U		
HEXACHLOROCYCLO-PENTADIEN	10	UJ	10	U	10	UJ	10	U		
2,4,6-TRICHLOROPHENOL	10	R	10	U	10	U	10	U		
2,4,5-TRICHLOROPHENOL	25	R	25	U	25	U	25	U		
1,1'-BIPHENYL	10	UJ	10	U	10	U	10	U		
2-CHLORONAPHTHALENE	10	UJ	10	U	10	U	10	U		
2-NITROANILINE	25	UJ	25	U	25	U	25	U		
DIMETHYLPHTHALATE	10	UJ	10	U	10	U	10	U		
2,6-DINITROTOLUENE	10	UJ	10	U	10	U	10	U		
ACENAPHTHYLENE	10	UJ	10	U	10	U	10	U		
3-NITROANILINE	25	UJ	25	U	25	U	25	U		
ACENAPHTHENE	10	UJ	10	U	10	U	10	U		

Analytical Results (Qualified Data)

Case #: 32841 SDG : E0003
Site : CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer :
Date :

Sample Number :	E0009RE		E0010		SBLKDD		SBLKKO			
Sampling Location :	G104		G101							
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	5/4/2004		5/4/2004							
Time Sampled :	14:45		18:00							
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	25	R	25	U	25	U	25	U		
4-NITROPHENOL	25	R	25	UJ	25	U	25	UJ		
DIBENZOFURAN	10	UJ	10	U	10	U	10	U		
2,4-DINITROTOLUENE	10	UJ	10	U	10	U	10	U		
DIETHYLPHTHALATE	10	UJ	10	U	10	U	10	U		
FLUORENE	10	UJ	10	U	10	U	10	U		
4-CHLOROPHENYL-PHENYL ETHER	10	UJ	10	U	10	UJ	10	U		
4-NITROANILINE	25	UJ	25	U	25	U	25	U		
4,6-DINITRO-2-METHYLPHENOL	25	R	25	U	25	U	25	U		
N-NITROSO DIPHENYLAMINE	10	UJ	10	U	10	U	10	U		
4-BROMOPHENYL-PHENYLETHER	10	UJ	10	U	10	U	10	U		
HEXACHLOROBENZENE	10	UJ	10	U	10	U	10	U		
ATRAZINE	10	UJ	10	U	10	UJ	10	U		
PENTACHLOROPHENOL	25	R	25	U	25	U	25	U		
PHENANTHRENE	10	UJ	10	U	10	U	10	U		
ANTHRACENE	10	UJ	10	U	10	U	10	U		
CARBAZOLE	10	UJ	10	U	10	U	10	U		
DI-N-BUTYLPHTHALATE	10	UJ	10	U	10	U	10	U		
FLUORANTHENE	10	UJ	10	U	10	U	10	U		
PYRENE	10	UJ	10	U	10	U	10	U		
BUTYLBENZYLPHTHALATE	10	UJ	10	U	10	U	10	U		
3,3'-DICHLOROBENZIDINE	10	UJ	10	U	10	U	10	U		
BENZO(A)ANTHRACENE	10	UJ	10	U	10	U	10	U		
CHRYSENE	10	UJ	10	U	10	U	10	U		
BIS(2-ETHYLHEXYL)PHTHALATE	8	J	10	U	10	U	10	U		
DI-N-OCTYLPHTHALATE	2	J	10	U	10	U	10	U		
BENZO(B)FLUORANTHENE	10	UJ	10	U	10	U	10	U		
BENZO(K)FLUORANTHENE	10	UJ	10	U	10	U	10	U		
BENZO(A)PYRENE	10	UJ	10	U	10	U	10	U		
INDENO(1,2,3-CD)-PYRENE	10	UJ	10	U	10	U	10	U		
DIBENZO(A,H)-ANTHRACENE	10	UJ	10	U	10	U	10	U		
BENZO(G,H,I)PERYLENE	10	UJ	10	U	10	U	10	U		

Analytical Results (Qualified Data)

Case # 32841 SDG : E0003
Site CARLSTROM LANDFILL
Lab. CEIMIC
Reviewer
Date

Number of Soil Samples 0
Number of Water Samples 3

Sample Number :	E0003		E0003MS		E0003MSD		E0007		E0010	
Sampling Location :	G103		G103		G103		FIELD BLANK		G101	
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004		5/4/2004		5/4/2004	
Time Sampled :	14:10		14:10		14:10		17:00		18:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
BETA-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
DELTA-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
GAMMA-BHC (LINDANE)	0.050	U	0.38		0.41		0.050	U	0.050	U
HEPTACHLOR	0.050	U	0.31		0.34		0.050	U	0.050	U
ALDRIN	0.050	U	0.37		0.42		0.050	U	0.050	U
HEPTACHLOR EPOXIDE	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
ENDOSU1FAN I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
DIELDRIN	0.10	U	0.86		0.88		0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
ENDRIN	0.10	U	0.90		0.93		0.10	U	0.10	U
ENDOSULFAN II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
ENDOSULFAN SULFATE	0.10	U	0.13	J	0.12	J	0.10	U	0.10	U
4'-DDT	0.10	U	0.86		0.85		0.10	U	0.10	U
'ETHOXYCHLOR	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
ENDRIN KETONE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
ENDRIN ALDEHYDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
ALPHA-CHLORDANE	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
GAMMA-CHLORDANE	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
TOXAPHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
AROCLOR-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
AROCLOR-1221	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
AROCLOR-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
AROCLOR-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
AROCLOR-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
AROCLOR-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
AROCLOR-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case # 32841 SDG : E0003
Site CARLSTROM LANDFILL
Lab. : CEIMIC
Reviewer
Date

Sample Number :	PBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	0.050	U								
BETA-BHC	0.050	U								
DELTA-BHC	0.050	U								
GAMMA-BHC (LINDANE)	0.050	U								
HEPTACHLOR	0.050	U								
ALDRIN	0.050	U								
HEPTACHLOR EPOXIDE	0.050	U								
ENDOSULFAN I	0.050	U								
DIELDRIN	0.10	U								
4,4'-DDE	0.10	U								
ENDRIN	0.10	U								
ENDOSULFAN II	0.10	U								
4,4'-DDD	0.10	U								
ENDOSULFAN SULFATE	0.10	U								
4,4'-DDT	0.10	U								
METHOXYCHLOR	0.50	U								
ENDRIN KETONE	0.10	U								
ENDRIN ALDEHYDE	0.10	U								
ALPHA-CHLORDANE	0.050	U								
GAMMA-CHLORDANE	0.050	U								
TOXAPHENE	5.0	U								
AROCLOR-1016	1.0	U								
AROCLOR-1221	2.0	U								
AROCLOR-1232	1.0	U								
AROCLOR-1242	1.0	U								
AROCLOR-1248	1.0	U								
AROCLOR-1254	1.0	U								
AROCLOR-1260	1.0	U								

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-28-04

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: CARLSTROM LANDFILL (IL)

CASE NUMBER: 32841 SDG NUMBER: E0003

Number and Type of Samples: 6 (WATER)

Sample Numbers: E0003, 6-7, 9-11

Laboratory: CEIMIC Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SM-5J

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVERSHEET

Lab Name: Ceimic Corporation **Lab Code:** CEIMIC

Case No.: 32841 **Bid Lot:** A

Contract No: 68W03018 **Full Sample Analysis Price:** $266.00

First Sample in SDG: E0003 **Sample Receipt Date:** 5/6/2004

(Lowest EPA Sample Number in the first shipment of samples received under SDG.)

Last Sample in SDG: E0011 **Sample Receipt Date:** 5/6/2004

(Highest EPA Sample Number in the last shipment of samples received under SDG.)

EPA Sample Numbers in the SDG (listed in alphanumeric order by date received)

1. E0003
2. E0006
3. E0007
4. E0009
5. E0010
6. E0011

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order by date received.
(i.e. The order listed on this form)

Jessica Muldoon
Signature

05/06/04
Date

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Rec...

Case No: 32841
DAS No:
SDG No: E0003

L

Date Shipped:	5/5/2004
Carrier Name:	UPS
Airbill:	1z6215892210023616
Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	5/4/04 2000	Elizabeth Astrig	05/06/04 10:00
2 EA			
3		05/06/04	
4			

For Lab Use Only

Lab Contract No:	68W03018
Unit Price:	A/3
Transfer To:	EA 05/06/04
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0003	Ground Water/ Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-217530 (HCL), 5-217531 (HCL), 5-217532 (HCL), 5-217533 (HCL), 5-217534 (HCL), 5-217535 (HCL), 5-217542 (Ice Only), 5-217543 (Ice Only), 5-217544 (Ice Only), 5-217545 (Ice Only), 5-217546 (Ice Only), 5-217547 (Ice Only) (12)	G103	S: 5/4/2004 14:10	ME0003	EA 05/06/04
E0006	Ground Water/ Mark Wagner	L/G	VOA (21)	5-217549 (HCL), 5-217550 (HCL) (2)	Trip Blank - Ceimic	S: 5/4/2004 16:50		
E0007	Ground Water/ Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-217552 (HCL), 5-217553 (HCL), 5-217555 (Ice Only), 5-217556 (Ice Only) (4)	Field Blank	S: 5/4/2004 17:00	ME0007	
E0009	Ground Water/ Mark Wagner	L/G	BNA (21), VOA (21)	5-217559, 5-217560, 5-217562 (Ice Only) (3)	G104	S: 5/4/2004 14:45		
E0010	Ground Water/ Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-217563 (HCL), 5-217564 (HCL), 5-217566 (Ice Only), 5-217567 (Ice Only) (4)	G101	S: 5/4/2004 18:00	ME0010	
E0011 *	Ground Water/ Mark Wagner	L/G	VOA (21)	5-217569 (HCL), 5-217570 (HCL) (2)	G102	S: 5/4/2004 18:00		

* = last sample in SDG E0003

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0003	Additional Sampler Signature(s): EA 05/06/04	Cooler Temperature Upon Receipt: 6°C, 4°C, 6°C	Chain of Custody Seal Number: 27990, 27991, 27992, ~~[illegible]~~
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

TR Number: 5-433491573-050404-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

MAY 2 8 2004

SDG Narrative

The enclosed data package is in response to USEPA, Region V, Case No. 32841, and SDG No. E0003, Contract No. 68-W-03-018. Under this SDG there are 8 VOA, 6 SVOA and 5 PEST/PCB samples received at Ceimic Corporation on May 6, 2004.

EPA ID:	CEIMIC ID:	Analysis
E0003	040372-01	VOA, SVOA, PEST/PCB
E0003MS	040372-01MS	VOA, SVOA, PEST/PCB
E0003MSD	040372-01MSD	VOA, SVOA, PEST/PCB
E0006	040372-02	VOA
E0007	040372-03	VOA, SVOA, PEST/PCB
E0009	040372-04	VOA, SVOA, PEST/PCB
E0010	040372-05	VOA, SVOA, PEST/PCB
E0011	040372-06	VOA

(1) Sample Receipt

Cooler Temperatures upon receipt were 4°C and 6°C.

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/ECD Analysis

A. VOA

MS12 HP5973 GC/MS, 30m, 0.25mm ID, 1.4 um, RTX-624 capillary column.
OI trap #10 (8cm Tenax, 8cm silica gel, 8cm carbon molecular sieve)

B. SVOA

MS4 HP5890SeriesII GC, HP5970BMS,30 m,0.25 mm ID, ZB-5 fused silica capillary column
MS11 HP6890 GC, HP5973MS,30 m,0.25 mm ID, ZB-5 fused silica capillary column

C. PEST/PCB

AD8: HP5890II (GC7) using 30m x 0.53mm ID, DB5 megabore column
AD9: HP5890II (GC7) using 30m x 0.53mm ID, DB1701 megabore column

(3) Sample Information

An "x" qualifier is flagged by Target Thru-put software whenever the data is manually edited. The letter "M" for GC/MS and for GC is used on the raw data of the quantitation report whenever a manual integration is performed. Manual integrations are performed on GC/MS and GC standards and samples when computer generated integration picks up only a portion of the chromatographic peak, due to software limitations. When manual integrations are required, these integrations are performed using sound defensible professional judgment, in order to report accurate data. Each manual integration is signed and dated, and reviewed by both the lab supervisor and the GC/MS Interpretation Specialist for GC/MS or the Organic Lab Manager for Pest/PCB.

A. VOA Fraction (Method CLP SOW OLM04.3)

The pHs of the water samples were:

Client ID:	Ceimic ID:	pH:
E0003	040372-01	1
E0006	040372-02	1
E0007	040372-03	1
E0009	040372-04	1
E0010	040372-05	1
E0011	040372-06	1

B. SVOA Fraction (Method CLP SOW OLM04.3)

Aqueous Sample Reference Table:

Client ID	Ceimic ID
E0003	040372-01
E0007	040372-03
E0009	040372-04
E0010	040372-05

Manual quantitations were performed on one or more of the process files associated with this SDG, including sample E0009. In the initial analysis of E0009, the recoveries of the surrogates, phenol-d5, 2-fluorophenol, and 2-chlorophenol-d4, failed quality control criteria. The sample was re-extracted outside of holding times. In the analysis of the second extract, the surrogates again failed recovery criteria as well as the base surrogate terphenyl-d14. We have attributed the failing surrogate recoveries to the particular matrix of the sample. Therefore we have reported and billed for both analyses of E0009.

C. PEST/PCB Fraction (Method CLP SOW OLM04.3)

No non-compliances noted.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Ines Bauer

Ines Bauer, Ph. D
Laboratory Manager

05/26/04
Date

ALKANE NARRATIVE REPORT
Report date : 05/19/2004
SDG: E0003

Client Sample ID: E0009RE Lab Sample ID: 040372-04RE File ID: DH259

Compound	RT	Est. Conc.	Q
Unknown Straight Chain Alkane	15.94	2	J
Unknown Straight Chain Alkane	17.33	2	J

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKLV	100	94	100		0
02	E0003	100	96	100		0
03	E0003MS	96	94	104		0
04	E0003MSD	98	92	106		0
05	E0006	100	94	106		0
06	E0007	100	98	108		0
07	E0009	102	98	108		0
08	E0010	100	96	112		0
09	VBLKLW	100	90	96		0
10	E0011	100	90	104		0
11	VHBLK01	98	88	96		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix Spike - EPA Sample No.: E0003

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0.0	57	114	61-145
Trichloroethene	50	0.0	59	118	71-120
Benzene	50	0.0	59	118	76-127
Toluene	50	0.0	58	116	76-125
Chlorobenzene	50	0.0	58	116	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	57	114	0	14	61-145
Trichloroethene	50	57	114	3	14	71-120
Benzene	50	57	114	3	11	76-127
Toluene	50	57	114	2	13	76-125
Chlorobenzene	50	56	112	4	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKLV

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Lab File ID: LU377 Lab Sample ID: V120514-B1

Date Analyzed: 05/14/04 Time Analyzed: 1039

GC Column: RTX-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS12

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0003	040372-01	LU378	1127
02	E0003MS	040372-01MS	LU379	1202
03	E0003MSD	040372-01MSD	LU380	1237
04	E0006	040372-02	LU381	1312
05	E0007	040372-03	LU382	1347
06	E0009	040372-04	LU383	1423
07	E0010	040372-05	LU384	1459
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COMMENTS:

FORM IV VOA

OLM04.3

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKLW

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Lab File ID: LU402 Lab Sample ID: V120515-B1

Date Analyzed: 05/15/04 Time Analyzed: 1807

GC Column: RTX-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS12

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0011	040372-06	LU403	1851
02	VHBLK01	040372-21	LU404	1927
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU378

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU378

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

EPA SAMPLE NO.

E0003

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU378

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MS

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU379

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	57	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10 ~~1~~	JB μ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	59	
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MS

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU379

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	59	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	58	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	58	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MSD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MSD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU380

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	57	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10 ~~1~~	JB U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	57	
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MSD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MSD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU380

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	57	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	57	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	56	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0006

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU381

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0006

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU381

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0006

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU381

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0007

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU382

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0007

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU382

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0007

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU382

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0009

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU383

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	15	
75-15-0	Carbon Disulfide	2	J
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0009

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU383

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0009

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU383

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU384

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU384

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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EPA SAMPLE NO.

E001C

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU384

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0011

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU403

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0011

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU403

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0011

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU403

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKLV

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: V120514-B1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU377

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKLV

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: V120514-B1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU377

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKLV

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: V120514-B1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU377

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/14/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKLW

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: V120515-B1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU402

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKLW

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: V120515-B1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU402

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	1	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKLW

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: V120515-B1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU402

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-21

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU404

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-21

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU404

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-21

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LU404

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKKO	86	86	88	84	76	107	84	72	0
02	E0003	74	74	52	71	65	84	72	66	0
03	E0003MS	66	68	44	61	57	76	65	62	0
04	E0003MSD	70	72	46	67	61	85	68	62	0
05	E0007	74	72	78	72	69	84	73	68	0
06	E0009	64	66	50	1*	0*	41	12*	60	3
07	E0010	68	70	58	63	59	81	65	62	0
08	SBLKDD	64	66	78	67	64	97	65	58	0
09	E0009RE	62	62	24*	1*	0*	25	7*	58	4
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix Spike - EPA Sample No.: E0003

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0.0	46	61	12-110
2-Chlorophenol	75	0.0	45	60	27-123
N-Nitroso-di-n-prop.(1)	50	0.0	29	58	41-116
4-Chloro-3-Methylphenol	75	0.0	52	69	23- 97
Acenaphthene	50	0.0	34	68	46-118
4-Nitrophenol	75	0.0	51	68	10- 80
2,4-Dinitrotoluene	50	0.0	36	72	24- 96
Pentachlorophenol	75	0.0	61	81	9-103
Pyrene	50	0.0	39	78	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	48	64	5	42	12-110
2-Chlorophenol	75	48	64	6	40	27-123
N-Nitroso-di-n-prop.(1)	50	31	62	7	38	41-116
4-Chloro-3-Methylphenol	75	55	73	6	42	23- 97
Acenaphthene	50	37	74	8	31	46-118
4-Nitrophenol	75	53	71	4	50	10- 80
2,4-Dinitrotoluene	50	40	80	11	38	24- 96
Pentachlorophenol	75	67	89	9	50	9-103
Pyrene	50	45	90	14	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKDD

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841

SAS No.:

SDG No.: E0003

Lab File ID: DH255

Lab Sample ID: S0513-B1D

Instrument ID: MS4

Date Extracted: 05/13/04

Matrix: (soil/water) WATER

Date Analyzed: 05/17/04

Level: (low/med) LOW

Time Analyzed: 1255

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0009RE	040372-04RE	DH259	05/17/04
02				
03				
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKKO

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Lab File ID: K8335 Lab Sample ID: S0507-BB1K

Instrument ID: MS11 Date Extracted: 05/07/04

Matrix: (soil/water) WATER Date Analyzed: 05/12/04

Level:(low/med) LOW Time Analyzed: 1317

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0003	040372-01	K8341	05/12/04
02	E0003MS	040372-01MS	K8342	05/12/04
03	E0003MSD	040372-01MSD	K8343	05/12/04
04	E0007	040372-03	K8344	05/12/04
05	E0009	040372-04	K8345	05/12/04
06	E0010	040372-05	K8346	05/12/04
07				
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COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8341

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8341

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0003

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8341

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	4.46	160	J
2. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	5.35	47	NJ
3. 540-97-6	CYCLOHEXASILOXANE, DODECAMET	6.26	16	NJ
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MS

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8342

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	46	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	45	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	29	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	52	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	34	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MS

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8342

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	51	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	36	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	61	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	39	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MSD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8343

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	48	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	48	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	31	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	55	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	37	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MSD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8343

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	53	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	40	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	67	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0007

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8344

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0007

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8344

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0007

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8344

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	5.35	51	NJ
2. 540-97-6	CYCLOHEXASILOXANE, DODECAMET	6.26	17	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0009

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8345

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	1	J
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0009

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8345

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0009

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8345

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2440-22-4	DROMETRIZOLE	9.87	34	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0009RE

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DH259

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/13/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	2	J
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0009RE

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DH259

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/13/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	8	J
117-84-0	Di-n-octylphthalate	2	J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0009RE

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-04RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DH259

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/13/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALCOHOL/ALKENE	5.26	4	J
2.	UNKNOWN	5.39	4	J
3.	UNKNOWN	5.71	2	J
4.	UNKNOWN KETONE	6.69	2	J
5.	UNKNOWN	6.96	5	J
6.	UNKNOWN FATTY ACID	7.17	4	J
7. 1526-17-6	2-FLUORO-6-NITROPHENOL	7.25	4	NJ
8.	UNKNOWN FATTY ACID	7.87	15	J
9.	UNKNOWN	8.33	2	J
10. 0-00-0	PHENOL, 2-FLUORO-4-NITRO-	8.57	7	NJ
11.	UNKNOWN	8.71	6	J
12.	UNKNOWN	9.48	7	J
13.	UNKNOWN KETONE	12.79	6	J
14. 2440-22-4	DROMETRIZOLE	12.85	27	NJ
15.	UNKNOWN	17.04	3	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8346

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8346

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0010

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8346

Level: (low/med) LOW Date Received: 05/06/04

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKDD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: S0513-B1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DH255

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/13/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKDD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: S0513-B1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DH255

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/13/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKDD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: S0513-B1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DH255

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/13/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKKO

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: S0507-BB1K

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8335

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKKO

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: S0507-BB1K

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8335

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKKO

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: S0507-BB1K

Sample wt/vol: 1000 (g/mL) ML Lab File ID: K8335

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/07/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/12/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

GC Column(1):DB5 ID:0.53(mm) GC Column(2):DB35 ID:0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	80	75	95	95			0
02	E0003	90	95	90	85			0
03	E0003MS	65	65	90	85			0
04	E0003MSD	75	80	85	80			0
05	E0007	90	90	95	90			0
06	E0010	55	90	80	75			0
07								
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		QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)
S2 (DCB)	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix Spike - EPA Sample No.: E0003

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.50	0.00	0.38	76	56-123
Heptachlor	0.50	0.00	0.31	62	40-131
Aldrin	0.50	0.00	0.37	74	40-120
Dieldrin	1.0	0.00	0.86	86	52-126
Endrin	1.0	0.00	0.90	90	56-121
4,4'-DDT	1.0	0.00	0.86	86	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	0.41	82	8	15	56-123
Heptachlor	0.50	0.34	68	9	20	40-131
Aldrin	0.50	0.42	84	13	22	40-120
Dieldrin	1.0	0.88	88	2	18	52-126
Endrin	1.0	0.93	93	3	21	56-121
4,4'-DDT	1.0	0.85	85	1	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Lab Sample ID: P0510-B5 Lab File ID: _____

Matrix (soil/water) WATER Extraction:(Type) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/10/04

Date Analyzed (1): 05/12/04 Date Analyzed (2): 05/12/04

Time Analyzed (1): 2333 Time Analyzed (2): 2333

Instrument ID (1): GC7 Instrument ID (2): GC7

GC Column (1): DB5 ID: 0.53(mm) GC Column (2): DB35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E0003	040372-01	05/13/04	05/13/04
02	E0003MS	040372-01MS	05/13/04	05/13/04
03	E0003MSD	040372-01MSD	05/13/04	05/13/04
04	E0007	040372-03	05/13/04	05/13/04
05	E0010	040372-05	05/13/04	05/13/04
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COMMENTS: _____

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Received: 05/06/04

Extraction: (Type) SEPF Date Extracted: 05/10/04

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/13/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MS

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Received: 05/06/04

Extraction: (Type) SEPF Date Extracted: 05/10/04

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/13/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.38	
76-44-8	Heptachlor	0.31	
309-00-2	Aldrin	0.37	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.86	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.90	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.13	P
50-29-3	4,4'-DDT	0.86	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0003MSD

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Received: 05/06/04

Extraction: (Type) SEPF Date Extracted: 05/10/04

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/13/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.41	
76-44-8	Heptachlor	0.34	
309-00-2	Aldrin	0.42	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.88	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.93	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.12	P
50-29-3	4,4'-DDT	0.85	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0007

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Received: 05/06/04

Extraction: (Type) SEPF Date Extracted: 05/10/04

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/13/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0010

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: 040372-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Received: 05/06/04

Extraction: (Type) SEPF Date Extracted: 05/10/04

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/13/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32841 SAS No.: SDG No.: E0003

Matrix: (soil/water) WATER Lab Sample ID: P0510-B5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 05/10/04

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/12/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
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12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0003 CERCLIS No: ILD980497721

Case No: 32841 Site Name/Location: Carlstrom Landfill

Contractor or EPA Lab: CEIMIC Data User: IEPA

No. of Samples: 6 Date Sampled or Date Received: 5-28-04

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ____ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 6 No. of samples received: 6

Received by: Erin M. Dixon | ESAT Date: 5-28-04

Received by LSSS: Erin M. Dixon | ESAT Date: 5-28-04

Review started: June 15, 2004 Reviewer Signature: Allison C Harvey

Total time spent on review: 9 hrs Date review completed: June 17, 2004

Copied by: Erin M. Dixon | ESAT Date: 6-21-04

Mailed to user by: Erin M. Dixon | ESAT Date: 6-21-04

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: July 14, 2004

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Carlstrom Landfill

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
32841	Chemtech	6	ME0003	Water

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

RECEIVED
JUL 19 2004
EPA-BOL-PSRS

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

JUL 1 4 2004

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 7/12/04

SUBJECT: **Review of Data**
Received for review on 5/28/04

FROM: **Stephen L. Ostrodka, Chief (SMF-4J)**
Superfund Field Services Section

TO: **Data User:** IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Carlstrom Landfill (IL)

CASE NUMBER: 32841 **SDG NUMBER:** ME0003

Number and Type of Samples: 6 water

Sample Numbers: ME0003-4, 7, 9, 10, 12

Laboratory: Chemtech Hrs. for Review: 7 +1

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six (6) water samples, numbered ME0003-4, 7, 9, 10, 12, were collected on May 4, 2004. The lab received the samples on May 6, 2004 in good condition. Samples ME0003, ME0007, ME0009 and ME0010 were analyzed for total metals. Samples ME0003, ME0007 and ME0010 were analyzed for cyanide. Samples ME0004 and ME0012 were analyzed for dissolved metals. All samples were analyzed using the CLP SOW ILM05.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric (ICP-AES) procedure.

Errors were found and corrected on Forms by this reviewer.

Reviewed by: Stephen Connet
Date: July 12, 2004

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB concentration which is greater than the instrument detection limit (IDL) but less than or equal to the CRQL. The sample result is greater than the MDL but less than or equal to the CRQL.
Hits are qualified "U". The sample result is raised to the CRQL.

Aluminum
ME0003, ME0004, ME0007, ME0012

Barium
ME0003, ME0004, ME0010, ME0012

Cadmium
ME0009, ME0010

Calcium
ME0007

Chromium
ME0004, ME0012

Cobalt
ME0009

Iron
ME0007

Lead
ME0010

Magnesium
ME0007

Reviewed by: Stephen Connet
Date: July 12, 2004

Manganese
ME0003, ME0004, ME0007, ME0012

Vanadium
ME0009, ME0010

Zinc
ME0003, ME0004, ME0007, ME0010, ME0012

The following inorganic samples are associated with a negative ICB/CCB concentration whose absolute value is greater than the instrument detection limit (IDL). The sample result is also greater than the MDL but less than or equal to the CRQL.
Hits are qualified "U". The sample result is raised to the CRQL.

Barium
ME0003, ME0004, ME0010, ME0012

Calcium
ME0007

Chromium
ME0004, ME0012

Cobalt
ME0009

Copper
ME0003, ME0004, ME0007, ME0009, ME0012

Iron
ME0007

Magnesium
ME0007

Vanadium
ME0009, ME0010

Zinc
ME0003, ME0004, ME0007, ME0010, ME0012

Reviewed by: Stephen Connet
Date: July 12, 2004

The following inorganic samples are associated with an ICB/CCB concentration which is greater than the instrument detection limit (IDL). Five times the blank concentration is greater than the CRQL. The sample concentration is greater than the CRQL but less than five times the blank concentration.

These hits are qualified "J+".

Aluminum

ME0010

Iron

ME0003, ME0004

The following inorganic samples are associated with a negative ICB/CCB concentration whose absolute value is greater than the instrument detection limit (IDL). Five times the absolute value of the blank concentration is greater than the CRQL. The sample concentration is greater than the CRQL but less than five times the absolute value of the blank concentration.

These hits are qualified "J-".

Iron

ME0003, ME0004

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. No post spike was performed.

Hits are qualified "J-" and non-detects are qualified "UJ".

Silver

ME0003, ME0004, ME0007, ME0009, ME0010, ME0012

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples.

6. ICP ANALYSIS:

DC-3: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control. The detected serial dilution result is less than the initial

sample result, indicating a potential positive interference.
Hits are qualified "J" and non-detects are qualified "UJ".

Potassium
ME0003, ME0004, ME0007, ME0009, ME0010, ME0012

Sodium
ME0003, ME0004, ME0007, ME0009, ME0010, ME0012

The following results are affected by an interference check "A" sample (ICSA) for which consistent false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.
Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Cadmium
ME0003, ME0004, ME0009, ME0010, ME0012

Lead
ME0003, ME0004, ME0010, ME0012

Thallium
ME0003, ME0004, ME0009, ME0010, ME0012

7. GFAA ANALYSIS:

No GFAA analyses were performed for this case.

8. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Nickel
ME0003, ME0004, ME0009, ME0010, ME0012

All data, except those qualified above, are acceptable.

Reviewed by: Stephen Connet
Date: July 12, 2004

CADRE ILM05.3 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Reviewed by: Stephen Connet
Date: July 12, 2004

Analytical Results (Qualified Data)

Case #: 32841 SDG : ME0003
Site : CARLSTROM LANDFILL
Lab. : CHEM
Reviewer : S. CONNET
Date : 07/12/04

Number of Soil Samples : 0
Number of Water Samples : 6

Sample Number :	ME0003		ME0004		ME0007		ME0009		ME0010	
Sampling Location :	G103		G103-D		FIELD BLANK		G104		G101	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/4/2004		5/4/2004		5/4/2004		5/4/2004		5/4/2004	
Time Sampled :	14:10		14:10		17:00		14:45		18:00	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	U	200	U	200	U	1620		218	J+
ANTIMONY	60.0	U	60.0	U	60.0	U	60.0	U	60.0	U
ARSENIC	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
BARIUM	200	U	200	U	200	U	577		200	U
BERYLLIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
CADMIUM	5.0	UJ	5.0	UJ	5.0	U	5.0	UJ	5.0	UJ
CALCIUM	199000		198000		5000	U	755000		175000	
CHROMIUM	10.0	U	10.0	U	10.0	U	29.9		13.5	
COBALT	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
COPPER	25.0	U	25.0	U	25.0	U	25.0	U	32.6	
IRON	187	J+/-	152	J+/-	100	U	3380		2120	
LEAD	10.0	UJ	10.0	UJ	10.0	U	22.9		10.0	UJ
MAGNESIUM	116000		116000		5000	U	49500		84200	
MANGANESE	15.0	U	15.0	U	15.0	U	223		76.4	
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	6.1	J	6.2	J	40.0	U	22.5	J	9.0	J
POTASSIUM	21400	J	21800	J	5000	UJ	14300	J	7660	J
SELENIUM	35.0	U	35.0	U	35.0	U	35.0	U	35.0	U
SILVER	10.0	UJ	10.0	UJ	10.0	UJ	10.0	UJ	10.0	UJ
SODIUM	311000	J	314000	J	5000	UJ	100000	J	201000	J
THALLIUM	25.0	UJ	25.0	UJ	25.0	U	25.0	UJ	25.0	UJ
VANADIUM	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
ZINC	60.0	U	60.0	U	60.0	U	75.2		60.0	U
CYANIDE	10.0	U			10.0	U			10.0	U

Analytical Results (Qualified Data)

Case #: 32841 SDG : ME0003
Site : CARLSTROM LANDFILL
Lab. : CHEM
Reviewer : S. CONNET
Date : 07/12/04

Sample Number :	ME0012									
Sampling Location :	G101 D									
Matrix :	Water									
Units :	ug/L									
Date Sampled :	5/4/2004									
Time Sampled :	18:00									
%Solids :	0.0									
Dilution Factor :	1.0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	U								
ANTIMONY	60.0	U								
ARSENIC	10.0	U								
BARIUM	200	U								
BERYLLIUM	5.0	U								
CADMIUM	5.0	UJ								
CALCIUM	159000									
CHROMIUM	10.0	U								
COBALT	50.0	U								
COPPER	25.0	U								
IRON	100	U								
LEAD	10.0	UJ								
MAGNESIUM	76800									
MANGANESE	15.0	U								
MERCURY	0.20	U								
NICKEL	6.7	J								
POTASSIUM	6990	J								
SELENIUM	35.0	UJ								
SILVER	10.0	UJ								
SODIUM	192000	J								
THALLIUM	25.0	UJ								
VANADIUM	50.0	U								
ZINC	60.0	U								
CYANIDE										

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 32841 SITE: CARLSTROM LF MATRIX: WATER WATER SAMPLE SPK: MEC003

DATA SET: MEC003 LAB: CHEMITECH CONC: LOW WATER SAMPLE DUP: MEC003

LAB QC # REVIEWED BY: S. CONNET SOIL SAMPLE SPK: —

DATE: 7-12-04 SOIL SAMPLE DUP: —

FORM #		FORM 2	FORM 3	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 3	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK (+)	CALIB INLP WATER BLANK (-)	PREP SOIL BLANK	ICS A ~~%R~~ ~7-12-04	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	
ALUMINUM				81.17																
ANTIMONY																				
ARSENIC																				
BARIUM				1.395	-1.63															
BERYLLIUM																				
CADMIUM				8.41			-4.84													
CALCIUM				36.27	-10.63															
CHROMIUM				1.01	-1.9															
COBALT				1.65	-2.29															
COPPER					-3.42															
IRON				41.58	-51.21															
LEAD				2.53			-0.83													
MAGNESIUM				24.07	-25.36															
MANGANESE				1.17																
MERCURY																				
NICKEL																				
POTASSIUM												36.5								
SELENIUM																				
SILVER															53.1					
SODIUM												25.5								
THALLIUM							-14.14													
TIN																				
VANADIUM				7.59	-1.93															
ZINC				1.11	-0.72															
CYANIDE																				

CHEMTECH

SDG NARRATIVE

USEPA
SDG # ME0003
CASE # 32841
CONTRACT # 68-W0-2068
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT #S2463

A. Number of Samples and Date of Receipt

06 Water Samples were delivered to the laboratory on 05/06/04.

B. Parameters

Test requested for Total Metals and Cyanide.

C. Cooler Temp

Indicator Bottle: Presence/Absence
Cooler Temp: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

E. Corrective Action taken for above:

Record of Communication
5/6/04 10:45PM Jessica Brown, SMO, spoke with Sunny Patel, CHEM, concerning Case 32841. The Scheduling Notification Form indicates that lab QC is required for both TM (CN) and DM samples, however, only one lab QC is indicated on the TR. SMO reported that, Region 5 does not require separate lab QC to be performed on the DM samples.

3/03/03 11:37AM Jessica Brown, SMO, spoke with Howard Pham, USEPA Region 5 RSCC. Region 5 does not require separate lab QC to be performed on the DM samples.

For More details Regional Resolutions, please check the attached E-mail Communication page at the end of the Data Package.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.3

G. Calculation:

Conversion of results from mg/L to mg/kg (Dry Weight Basis):

CHEMTECH

Mg/Kg = (Result in mg/L) X 1000 X 100/ % Solid X Fraction of Sample Amount Taken in Prep.

G. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did met requirements except for the Silver. Duplicate sample did met requirements. Serial Dilution did met requirements except for Potassium and Sodium.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____ Name: Parveen Hasan

Date 5/25/04 Title: EPA QA/QC OFFICER

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32841
DAS No:	
SDG No:	ME0003

L

Date Shipped:	5/5/2004
Carrier Name:	UPS
Airbill:	1z6215892210023607
Shipped to:	ChemTech Consulting Group (CHEM) 110 Route 4 Englewood NJ 07631 (201) 568-7400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	5/4/04 2010	Sunny Patel	5/6/04 10:06
2			
3			
4			

For Lab Use Only

Lab Contract No:	68W02068
Unit Price:	$68.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0003	Ground Water/ Mark Wagner	L/G	CLP ICP Me (21), CN (21)	5-217536 (HNO3), 5-217537 (HNO3), 5-217539 (NaOH), 5-217540 (NaOH), 5-217541 (NaOH) (5)	G103	S: 5/4/2004 14:10	E0003	
ME0004	Ground Water/ Mark Wagner	L/G	Dissolv. I (21)	5-217548 (HNO3) (1)	G103 D	S: 5/4/2004 14:10		
ME0007	Ground Water/ Mark Wagner	L/G	CLP ICP Me (21), CN (21)	5-217551 (HNO3), 5-217554 (NaOH) (2)	Field Blank	S: 5/4/2004 17:00	E0007	
ME0009	Ground Water/ Mark Wagner	L/G	CLP ICP Me (21)	5-217561 (HNO3) (1)	G104	S: 5/4/2004 14:45	E0009	
ME0010	Ground Water/ Mark Wagner	L/G	CLP ICP Me (21), CN (21)	5-217565 (HNO3), 5-217568 (NaOH) (2)	G101	S: 5/4/2004 18:00	E0010	

007

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME0003	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 27989
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? yes / Shipment Iced? yes

CLP ICP Me = CLP ICP Metals, Hg, CN = Cyanide, Dissolv. I = CLP Dissolved ICP Metals, Hg

TR Number: 5-433491573-050404-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	32841
DAS No:	
SDG No:	ME0003

L

Date Shipped:	5/4/2004
Carrier Name:	UPS
Airbill:	1z6215892210023607
Shipped to:	ChemTech Consulting Group (CHEM) 110 Route 4 Englewood NJ 07631 (201) 568-7400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	5/4/04 2010	Sunny Patel	5/6/04 10:06
2			
3			
4			

For Lab Use Only

Lab Contract No:	68W02068
Unit Price:	$68.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0012	Ground Water/ Mark Wagner	L/G	Dissolv. I (21)	5-217571 (HNO3) (1)	G101 D	S: 5/4/2004 18:00		

008

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 17989
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

Dissolv. I = CLP Dissolved ICP Metals, Hg

TR Number: 5-433491573-050404-0004

PR provides prel y results. Requests for preliminary results will increase analytical costs.
Send Copy to: S ple Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone /264-9348 Fax 703/264-9222

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F2V5.1 04 Page 1

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MAY 2 8 2004

COVER PAGE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

SOW No.: ILM05.3

EPA SAMPLE NO.	Lab Sample ID.
ME0003	S2463-01
ME0003D	S2463-02
ME0003S	S2463-03
ME0004	S2463-04
ME0007	S2463-05
ME0009	S2463-06
ME0010	S2463-07
ME0012	S2463-08

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	
If yes-were raw data generated before application of background corrections?	(Yes/No)	NO	

Comments:

The "E" qualifiers on Form I and VIII for Potassium and Sodium indicate chemical or physical interference effects, which were suspected during those elements' analyses only.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: PARVEEN HASAN

Date: 5/25/04 Title: EPA QA/QC OFFICER

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0003

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Lab Sample ID: S2463-01

Level: (low/med) LOW Date Received: 05/06/2004

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200U ~~30.6~~	~~J~~	w 7-12-04	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200U ~~52.0~~	~~J~~	w 7-12-04	P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	199000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0U ~~6.7~~	~~J~~	w 7-12-04	P
7439-89-6	Iron	187			P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	116000			P
7439-96-5	Manganese	15.0U ~~9.8~~	~~J~~	w 7-12-04	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.1	J		P
7440-09-7	Potassium	21400		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	311000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	60.0U ~~10.5~~	~~J~~	w 7-12-04	P
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0004

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Lab Sample ID: S2463-04

Level: (low/med) LOW Date Received: 05/06/2004

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200U ~~21.7~~	~~J~~	W 7-12-04	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200U ~~51.4~~	~~J~~	W 7-12-04	P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	198000			P
7440-47-3	Chromium	10.0U ~~2.7~~	~~J~~	W 7-12-04	P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0U ~~5.0~~	~~J~~	W 7-12-04	P
7439-89-6	Iron	152			P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	116000			P
7439-96-5	Manganese	15.0U ~~9.4~~	~~J~~	W 7-12-04	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.2	J		P
7440-09-7	Potassium	21800		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	314000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	60.0U ~~20.2~~	~~J~~	W 7-12-04	P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM IA-IN ILM05.3

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0007

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Lab Sample ID: S2463-05

Level: (low/med) LOW Date Received: 05/06/2004

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2000 ~~42.1~~	~~J~~	u 7-12-04	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	5000 ~~2000~~	~~J~~	u 7-12-04	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0 U ~~8.7~~	~~J~~	u 7-12-04	P
7439-89-6	Iron	100 U ~~23.4~~	~~J~~	u 7-12-04	P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	500 U ~~431~~	~~J~~	u 7-12-04	P
7439-96-5	Manganese	15.0 U ~~0.93~~	~~J~~	u 7-12-04	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	5000	U	E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	5000	U	E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	60.0 U ~~16.0~~	~~J~~	u 7-12-04	P
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0009

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Lab Sample ID: S2463-06

Level: (low/med) LOW Date Received: 05/06/2004

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1620			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	577			P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0 U ~~0.77~~	~~J~~	w 9-12-04	P
7440-70-2	Calcium	755000		D	P
7440-47-3	Chromium	29.9			P
7440-48-4	Cobalt	50.0 U ~~6.4~~	~~J~~	w 9-12-04	P
7440-50-8	Copper	25.0 U ~~23.1~~	~~J~~	w 9-12-04	P
7439-89-6	Iron	3380			P
7439-92-1	Lead	22.9			P
7439-95-4	Magnesium	49500			P
7439-96-5	Manganese	223			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	22.5	J		P
7440-09-7	Potassium	14300		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	100000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0 U ~~2.9~~	~~J~~	w 9-12-04	P
7440-66-6	Zinc	75.2			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0010

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Lab Sample ID: S2463-07

Level: (low/med) LOW Date Received: 05/06/2004

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	218			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200 U ~~113~~	~~J~~	w 7-12-04	P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0 U ~~0.92~~	~~J~~	w 7-12-04	P
7440-70-2	Calcium	175000			P
7440-47-3	Chromium	13.5			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	32.6			P
7439-89-6	Iron	2120			P
7439-92-1	Lead	10.0 U ~~8.1~~	~~J~~	w 7-12-04	P
7439-95-4	Magnesium	84200			P
7439-96-5	Manganese	76.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	9.0	J		P
7440-09-7	Potassium	7660		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	201000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0 U ~~0.98~~	~~J~~	w 7-12-04	P
7440-66-6	Zinc	60.0 U ~~55.9~~	~~J~~	w 7-12-04	P
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0012

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Lab Sample ID: S2463-08

Level: (low/med) LOW Date Received: 05/06/2004

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200 U ~~53.9~~	~~J~~	w 7-12-04	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200 U ~~92.1~~	~~J~~	w 7-12-04	P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	159000			P
7440-47-3	Chromium	10.00 ~~1.8~~	~~J~~	w 7-12-04	P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0 U ~~8.4~~	~~J~~	w 7-12-04	P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	76800			P
7439-96-5	Manganese	15.0 U ~~11.6~~	~~J~~	w 7-12-04	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.7	J		P
7440-09-7	Potassium	6990		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	192000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	60.0 U ~~39.1~~	~~J~~	w 7-12-04	P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM IA-IN ILM05.3

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3-IN
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	200.000	U	200.000	U	12.460	J	42.235	J	200.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	11.650	J	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Barium	200.000	U	200.000	U	1.395	J	200.000	U	200.000	U	P
Beryllium	0.055	J	5.000	U	5.000	U	5.000	U	5.000	U	P
Cadmium	0.410	J	5.000	U	5.000	U	5.000	U	5.000	U	P
Calcium	2.705	J	11.250	J	23.135	J	15.215	J	12.500	J	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	2.250	J	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	2.330	J	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	25.000	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	-33.905	J	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Magnesium	-13.605	J	5000.000	U	5000.000	U	8.655	J	14.535	J	P
Manganese	0.350	J	15.000	U	15.000	U	15.000	U	0.880	J	P
Mercury	-0.088	J	0.200	U	-0.070	J	-0.030	J	-0.066	J	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	40.000	U	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Selenium	5.550	J	35.000	U	35.000	U	35.000	U	35.000	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Thallium	4.325	J	25.000	U	9.690	J	2.435	J	12.930	J	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	0.865	J	P
Zinc	0.740	J	1.110	J	0.865	J	60.000	U	60.000	U	P
Cyanide	10.000	U	1.077	J	10.000	U	10.000	U	10.000	U	AS

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3-IN
BLANKS

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			53.175	J	81.165	J	16.830	J			P
Antimony			60.000	U	60.000	U	-6.150	J			P
Arsenic			10.000	U	10.000	U	3.595	J			P
Barium			200.000	U	200.000	U	-1.630	J			P
Beryllium			5.000	U	5.000	U	-0.185	J			P
Cadmium			5.000	U	5.000	U	5.000	U			P
Calcium			19.175	J	20.010	J	-10.625	J			P
Chromium			10.000	U	10.000	U	-1.900	J			P
Cobalt			50.000	U	50.000	U	-2.270	J			P
Copper			25.000	U	-1.090	J	-3.415	J			P
Iron			49.575	J	-51.210	J	-34.970	J			P
Lead			10.000	U	10.000	U	2.525	J			P
Magnesium			5000.000	U	10.510	J	-25.360	J			P
Manganese			1.170	J	15.000	U	15.000	U			P
Mercury			-0.037	J	0.200	U					CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			5000.000	U	5000.000	U	-35.735	J			P
Selenium			5.370	J	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			5000.000	U	5000.000	U	1965.010	J			P
Thallium			6.955	J	5.750	J	-3.510	J			P
Vanadium			50.000	U	50.000	U	7.585	J			P
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			24.770	J	34.730	J	200.000	U			P
Antimony			60.000	U	60.000	U	8.135	J			P
Arsenic			10.000	U	10.000	U	-4.265	J			P
Barium			0.960	J	1.300	J	1.055	J			P
Beryllium			0.120	J	0.135	J	0.065	J			P
Cadmium			5.000	U	0.410	J	5.000	U			P
Calcium			31.680	J	36.270	J	10.445	J			P
Chromium			10.000	U	0.810	J	1.005	J			P
Cobalt			50.000	U	50.000	U	1.105	J			P
Copper			-1.770	J	-1.845	J	25.000	U			P
Iron			100.000	U	100.000	U	100.000	U			P
Lead			10.000	U	10.000	U	1.545	J			P
Magnesium			5000.000	U	15.460	J	21.435	J			P
Manganese			0.290	J	0.470	J	15.000	U			P
Mercury	-0.138	J	-0.096	J	-0.087	J	-0.077	J			CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			5000.000	U	5000.000	U	18.225	J			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			5000.000	U	5000.000	U	384.590	J			P
Thallium			-1.880	J	5.105	J	-2.615	J			P
Vanadium			1.615	J	1.240	J	-1.930	J			P
Zinc			0.560	J	60.000	U	-0.565	J			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			200.000	U							P
Antimony			5.390	J							P
Arsenic			10.000	U							P
Barium			0.935	J							P
Beryllium			0.065	J							P
Cadmium			5.000	U							P
Calcium			15.795	J							P
Chromium			10.000	U							P
Cobalt			1.645	J							P
Copper			-1.610	J							P
Iron			100.000	U							P
Lead			10.000	U							P
Magnesium			24.070	J							P
Manganese			15.000	U							P
Mercury											NR
Nickel			40.000	U							P
Potassium			5000.000	U							P
Selenium			35.000	U							P
Silver			10.000	U							P
Sodium			5000.000	U							P
Thallium			-3.000	J							P
Vanadium			-1.335	J							P
Zinc			-0.720	J							P
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000	249000	102	246000	99	248000	102	243000	98
Antimony	0	585	2.0		583	100	0.66		590	101
Arsenic	0	97.0	-1.1		100	103	1.3		101	104
Barium	2.0	475	2.2	110	518	109	1.9	95	519	109
Beryllium	0	482	0.41		470	98	0.40		475	99
Cadmium	0	916	-0.86		961	105	-1.5		973	106
Calcium	234000	234000	237000	101	234000	100	245000	105	240000	103
Chromium	36.0	506	32.5	90	503	99	32.5	90	500	99
Cobalt	3.0	455	3.7	123	475	104	3.3	110	474	104
Copper	15.0	537	14.7	98	520	97	14.0	93	514	96
Iron	94900	95100	94700	100	93500	98	94400	99	92300	97
Lead	5.0	51.0	1.2	24	49.0	96	0.75	15	49.5	97
Magnesium	249000	254000	260000	104	256000	101	269000	108	263000	104
Manganese	19.0	483	19.5	103	512	106	19.8	104	508	105
Nickel	10.0	930	12.1	121	977	105	12.0	120	982	106
Potassium	0	0	20.7		5.2		2.5		6.9	
Selenium	0	51.0	0.42		52.0	102	-1.5		48.6	95
Silver	0	210	-0.60		211	100	-1.2		214	102
Sodium	0	0	744		793		640		393	
Thallium	0	96.0	-10.4		88.3	92	-14.1		93.2	97
Vanadium	1.0	481	2.2	220	480	100	2.5	250	482	100
Zinc	39.0	975	40.7	104	1000	103	41.6	107	981	101

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000					233000	95	233000	94
Antimony	0	585					5.7		591	101
Arsenic	0	97.0					-2.1		97.3	100
Barium	2.0	475					1.8	90	505	106
Beryllium	0	482					0.40		472	98
Cadmium	0	916					-1.6		973	106
Calcium	234000	234000					245000	105	247000	106
Chromium	36.0	506					30.5	85	484	96
Cobalt	3.0	455					3.2	107	465	102
Copper	15.0	537					12.4	83	489	91
Iron	94900	95100					88300	93	88800	93
Lead	5.0	51.0					1.6	32	47.1	92
Magnesium	249000	254000					269000	108	270000	106
Manganese	19.0	483					19.3	102	494	102
Nickel	10.0	930					12.1	121	967	104
Potassium	0	0					-1.0		21.5	
Selenium	0	51.0					-2.6		45.8	90
Silver	0	210					-0.74		217	103
Sodium	0	0					249		575	
Thallium	0	96.0					-11.2		93.6	98
Vanadium	1.0	481					3.7	370	475	99
Zinc	39.0	975					37.5	96	932	96

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000					226000	93	226000	91
Antimony	0	585					2.0		588	101
Arsenic	0	97.0					0.60		102	105
Barium	2.0	475					2.0	100	497	105
Beryllium	0	482					0.44		465	96
Cadmium	0	916					-1.3		957	104
Calcium	234000	234000					247000	106	247000	106
Chromium	36.0	506					29.3	81	467	92
Cobalt	3.0	455					3.3	110	453	100
Copper	15.0	537					11.9	79	471	88
Iron	94900	95100					85200	90	85600	90
Lead	5.0	51.0					0.45	9	46.7	92
Magnesium	249000	254000					270000	108	271000	107
Manganese	19.0	483					17.4	92	476	99
Nickel	10.0	930					12.1	121	949	102
Potassium	0	0					9.8		12.3	
Selenium	0	51.0					-3.1		47.0	92
Silver	0	210					-0.42		214	102
Sodium	0	0					327		540	
Thallium	0	96.0					-8.2		89.2	93
Vanadium	1.0	481					3.9	390	465	97
Zinc	39.0	975					36.7	94	891	91

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000					233000	95	235000	95
Antimony	0	585					6.1		591	101
Arsenic	0	97.0					-0.44		97.1	100
Barium	2.0	475					4.0	200	510	107
Beryllium	0	482					0.49		477	99
Cadmium	0	916					-4.8		958	105
Calcium	234000	234000					233000	100	235000	100
Chromium	36.0	506					32.4	90	504	100
Cobalt	3.0	455					4.9	163	476	105
Copper	15.0	537					13.9	93	508	95
Iron	94900	95100					91800	97	93200	98
Lead	5.0	51.0					4.2	84	52.8	104
Magnesium	249000	254000					248000	100	250000	98
Manganese	19.0	483					19.8	104	514	106
Nickel	10.0	930					11.5	115	978	105
Potassium	0	0					33.4		37.1	
Selenium	0	51.0					-4.0		47.0	92
ilver	0	210					-0.17		208	99
odium	0	0					778		903	
Thallium	0	96.0					-9.6		86.6	90
Vanadium	1.0	481					-0.12	-12	474	99
Zinc	39.0	975					39.2	101	1000	103

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

ICP-AES Instrument ID: P2 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000					234000	96	235000	95
Antimony	0	585					2.4		585	100
Arsenic	0	97.0					-0.81		98.8	102
Barium	2.0	475					4.2	210	511	108
Beryllium	0	482					0.48		479	99
Cadmium	0	916					-4.7		964	105
Calcium	234000	234000					234000	100	235000	100
Chromium	36.0	506					32.2	89	504	100
Cobalt	3.0	455					5.3	177	477	105
Copper	15.0	537					13.3	89	508	95
Iron	94900	95100					92600	98	93100	98
Lead	5.0	51.0					3.6	72	53.8	105
Magnesium	249000	254000					251000	101	252000	99
Manganese	19.0	483					19.7	104	513	106
Nickel	10.0	930					11.6	116	983	106
Potassium	0	0					37.2		30.2	
Selenium	0	51.0					-4.3		51.6	101
Silver	0	210					-0.23		209	100
Sodium	0	0					984		839	
Thallium	0	96.0					-9.2		87.6	91
Vanadium	1.0	481					-0.21	-21	474	99
Zinc	39.0	975					39.8	102	1010	104

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0003S

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2126.6450		30.6400	J	2000.00	105		P
Antimony	75-125	111.1050		60.0000	U	100.00	111		P
Arsenic	75-125	47.7650		10.0000	U	40.00	119		P
Barium	75-125	2205.9100		52.0150	J	2000.00	108		P
Beryllium	75-125	51.5550		5.0000	U	50.00	103		P
Cadmium	75-125	53.6600		5.0000	U	50.00	107		P
Calcium									NR
Chromium	75-125	199.9000		10.0000	U	200.00	100		P
Cobalt	75-125	508.2150		50.0000	U	500.00	102		P
Copper	75-125	253.6000		6.7000	J	250.00	99		P
Iron	75-125	1180.1850		186.6200		1000.00	99		P
Lead	75-125	21.7600		10.0000	U	20.00	109		P
Magnesium									NR
Manganese	75-125	515.9950		9.7700	J	500.00	101		P
Mercury	75-125	1.2330		0.2000	U	1.00	123		CV
ickel	75-125	522.1550		6.0900	J	500.00	103		P
Potassium									NR
Selenium	75-125	56.5750		35.0000	U	50.00	113		P
Silver	75-125	26.5400		10.0000	U	50.00	53	N	P
Sodium									NR
Thallium	75-125	53.9100		25.0000	U	50.00	108		P
Vanadium	75-125	520.5400		50.0000	U	500.00	104		P
Zinc	75-125	499.7300		18.4650	J	500.00	96		P
Cyanide	75-125	96.4510		10.0000	U	100.00	96		AS

Comments:

FORM VA-IN ILM05.3

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME0003D

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		30.6400	J	30.1300	J	2		P
Antimony		60.0000	U	60.0000	U			P
Arsenic		10.0000	U	10.0000	U			P
Barium		52.0150	J	51.9200	J	0		P
Beryllium		5.0000	U	5.0000	U			P
Cadmium		5.0000	U	5.0000	U			P
Calcium		198553.1700		196701.4700		1		P
Chromium		10.0000	U	10.0000	U			P
Cobalt		50.0000	U	50.0000	U			P
Copper		6.7000	J	6.9600	J	4		P
Iron	100.0	186.6200		186.5100		0		P
Lead		10.0000	U	10.0000	U			P
Magnesium		115886.1400		114822.0700		1		P
Manganese		9.7700	J	9.7300	J	0		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		6.0900	J	6.1600	J	1		P
Potassium	5000.0	21385.0850		21234.7550		1		P
Selenium		35.0000	U	35.0000	U			P
Silver		10.0000	U	10.0000	U			P
Sodium		311352.5050		307995.6450		1		P
Thallium		25.0000	U	25.0000	U			P
Vanadium		50.0000	U	50.0000	U			P
Zinc		18.4650	J	18.0900	J	2		P
Cyanide		10.0000	U	10.0000	U			AS

USEPA - CLP

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME0003L

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Matrix: (soil/water) WATER Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	30.64	J	93.20	J	204		P
Antimony	60.00	U	300.00	U			P
Arsenic	10.00	U	50.00	U			P
Barium	52.02	J	51.85	J	0		P
Beryllium	5.00	U	25.00	U			P
Cadmium	5.00	U	25.00	U			P
Calcium	198553.17		204570.85		3		P
Chromium	10.00	U	50.00	U			P
Cobalt	50.00	U	250.00	U			P
Copper	6.70	J	125.00	U	100		P
Iron	186.62		500.00	U	100		P
Lead	10.00	U	50.00	U			P
Magnesium	115886.14		111057.30		4		P
Manganese	9.77	J	12.43	J	27		P
Nickel	6.09	J	200.00	U	100		P
Potassium	21385.09		13570.95	J	37	E	P
Selenium	35.00	U	175.00	U			P
Silver	10.00	U	50.00	U			P
Sodium	311352.51		232006.78		25	E	P
Thallium	25.00	U	125.00	U			P
Vanadium	50.00	U	7.05	J			P
Zinc	18.47	J	22.90	J	24		P

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Instrument Type: P Instrument ID: P2 Date: 07/02/2003

Preparation Method: HW1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	200	14.0
Antimony	206.80	60	7.0
Arsenic	189.00	10	3.5
Barium	493.40	200	7.4
Beryllium	313.00	5	0.49
Cadmium	226.50	5	0.57
Calcium	317.90	5000	6.1
Chromium	267.70	10	1.1
Cobalt	228.60	50	2.1
Copper	324.70	25	2.5
Iron	271.40	100	15.4
Lead	220.40	10	3.7
Magnesium	279.00	5000	13.9
Manganese	257.60	15	0.46
Mercury		0.2	
Nickel	231.60	40	2.8
Potassium	766.50	5000	52.2
Selenium	196.00	35	4.2
Silver	328.00	10	1.4
Sodium	588.90	5000	706
Thallium	190.90	25	7.0
Vanadium	292.40	50	0.85
Zinc	206.20	60	0.59
Cyanide		10	

Comments:
P2: ICP 61E TRACE ANALYZER

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Instrument Type: P Instrument ID: P2 Date: 04/05/2004

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	200	10.6
Antimony	206.80	60	5.1
Arsenic	189.00	10	2.3
Barium	493.40	200	0.68
Beryllium	313.00	5	0.050
Cadmium	226.50	5	0.40
Calcium	317.90	5000	2.4
Chromium	267.70	10	0.71
Cobalt	228.60	50	0.57
Copper	324.70	25	1.0
Iron	271.40	100	15.7
Lead	220.40	10	1.5
Magnesium	279.00	5000	5.3
Manganese	257.60	15	0.27
Mercury		0.2	
Nickel	231.60	40	1.5
Potassium	766.50	5000	17.7
Selenium	196.00	35	5.3
Silver	328.00	10	1.3
Sodium	588.90	5000	316
Thallium	190.90	25	1.8
Vanadium	292.40	50	0.91
Zinc	206.20	60	0.55
Cyanide		10	

Comments:
P2: ICP 61E TRACE ANALYZER

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Instrument Type: CV Instrument ID: CV Date: 02/21/2004

Preparation Method: CW1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury	253.70	0.2	0.020
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide		10	

Comments:
CV: LEEMAN PS200 HG ANALYZER
LEEMAN HG ANALYZER

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

·b Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Instrument Type: AS Instrument ID: CN Date: 10/17/2003

Preparation Method: DW2

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	3.8

Comments:
CN: KONELAB 200

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-W0-2068

Lab Code: CHEM Case No.: 32841 SAS No. SDG No.: ME0003

Instrument Type: AS Instrument ID: CN Date: 09/22/2003

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	0.90

Comments:
CN: KONELAB 200

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: HE0003 CERCLIS No: ILD980497721

Case No: 32841 Site Name/Location: CARLSTROM LF

Contractor or EPA Lab: CHEMTECH Data User: IEPA

No. of Samples: 6 Date Sampled or Date Received: 5-28-04

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 6 No. of samples received: 6

Received by: Ena M. Dixon/ESAT Date: 5-28-04

Received by LSSS: Ena M. Dixon/ESAT Date: 5-28-04

Review started: 7-9-04 Reviewer Signature: [signature]

Total time spent on review: 7 Date review completed: 7-12-04

Copied by: Ena M. Dixon/ESAT Date: 7-14-04

Mailed to user by: Ena M. Dixon/ESAT Date: 7-14-04

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____