EPA Region 5 Records Ctr.
393141

L2010300009 – Winnebago
Rockford Sand and Gravel
ILO 000034371
SF/HRS

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

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 <u>all</u> 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

SITE NAME ROCKFORD SAND & GRAVEL
ILO NUMBER 000034371

TABLE E-1
SAMPLE SUMMARY
(Soil)

SAMPLING POINT	X101 11/29/00 (Background)	X102 11/29/00	X103 11/28/00	X104 11/28/00	X105 11/28/00	X106 11/28/00	X107 11/29/00	TACO CLEANUP OBJECTIVES	RAL,s
PARAMETER									
VOLATILES									
Methylene Chloride	5 0 J	3 0 J	70 0 D	140 0 D	370 0 D	--	4 0 J	760 0	--
Acetone	150 0	200 0	330 0 D	440 0 D	430 0 D	--	19 0	200,000	--
Carbon Disulfide	--	--	22 0	21 0	17 0 DJ	--	5 0 J	200,000	--
Methyl Acetate	200 0	260 0 E	--	38 0	32 0 D	--	--	--	--
2-Butanone (MEK)	10 0 J	10 0 J	69 0	38 0 DJ	61 0 D	--	3 0 J	--	--
Cyclohexane	--	--	29 0	24 0	--	--	3 0 J	--	--
Methylcyclohexane	--	--	19 0	41 0	--	--	6 0 J	--	--
Benzene	--	--	16 0	14 0	8 0 DJ	--	--	200 0	5,900,000
4-Methyl-2-Pentanone	6 0 J	--	--	--	--	--	--	--	--
2-Hexanone	--	--	14 0	4 0 J	--	--	--	--	--
Toluene	--	--	18 0	37 0	10 0 DJ	--	5 0 J	410,000	16,000,000
Chlorobenzene	--	--	6 0 J	160 0 D	--	--	--	41,000	16,000,000
Ethylbenzene	--	--	160 0	260 0 D	--	--	--	200,000	78,000,000
Xylene(total)	--	--	140 0	550 0 D	--	--	5 0 J	1,000,000	--
1,4-Dichlorobenzene	--	--	--	29 0 DJ	--	--	--	--	--
Isopropylbenzene	--	--	23 0	16 0	--	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
SEMIVOLATILES									
4-Methylphenol	--	--	2200 0 J	--	370 0 J	470 0	--	--	--
Benzaldehyde	--	62 0 J	--	--	--	140 0 J	--	--	--
2,4-Dimethylphenol	--	--	1100 0 J	--	--	77 0 J	--	41,000	16,000,000
Naphthalene	81 0 J	--	58000 0	600 0 J	3900 0	460 0	--	82,000	500,000
2-Methylnaphthalene	--	--	28000 0	2900 0	3000 0	280 0 J	--	--	--
1,1'-Biphenyl	--	--	9300 0	220 0 J	800 0 J	110 0 J	--	--	--
Acenaphthylene	--	--	1200 0 J	--	330 0 J	--	--	--	--
Acenaphthene	--	--	37000 0	720 0 J	5000 0	830 0	--	120,000	1,000,000
Dibenzofuran	--	--	38000 0	600 0 J	3700 0	540 0	--	--	--
Fluorene	--	--	66000 0 D	1200 0 J	7000 0	960 0	38 0 J	82,000	1,000,000
Acetophenone	68 0 J	42 0 J	--	--	--	--	39 0 J	--	--
Pentachlorophenol	--	--	--	1800 0 J	--	--	--	24 0	100,000
Phenanthrene	53 0 J	51 0 J	270000 0 D	3000 0	52000 0 D	5600 0 D	310 0 J	--	1,000,000
Anthracene	--	--	81000 0 D	570 0 J	14000 0 D	1200 0	65 0 J	610,000	1,000,000
Carbazole	--	--	46000 0	280 0 J	7200 0	770 0	40 0 J	290 0	--
Di-n-Butylphthalate	--	--	--	--	370 0 J	190 0 J	--	200,000	78,000,000
Fluoranthene	95 0 J	84 0 J	240000 0 D	950 0 J	66000 0 D	6200 0 D	360 0 J	--	1,000,000
Pyrene	76 0 J	74 0 J	230000 0 D	1300 0 J	60000 0 D	5000 0 D	320 0 J	61,000	1,000,000
Butylbenzylphthalate	--	--	--	--	--	280 0 J	--	410,000	160 000,000
Benzo(a)anthracene	--	--	110000 0 D	440 0 J	39000 0 D	2200 0	150 0 J	8 0	1,000,000
Chrysene	55 0 J	48 0 J	110000 0 D	620 0 J	44000 0 D	2400 0	160 0 J	780 0	1,000,000
bis(2-Ethylhexyl)phthalate	41 0 J	--	--	280 0 J	--	1700 0	--	410 0	12,000,000
Benzo(b)fluoranthene	47 0 J	--	88000 0 D	--	34000 0 D	2000 0	130 0 J	8 0	--
Benzo(k)fluoranthene	--	--	81000 0 D	--	30000 0 D	1600 0	100 0 J	78 0	1,000,000
Benzo(a)pyrene	41 0 J	--	98000 0 D	--	36000 0 D	2200 0	130 0 J	0 8	1,000,000
Indeno(1,2,3-cd)pyrene	--	--	54000 0 D	--	21000 0 D	1400 0	68 0 J	8 0	1,000,000
Dibenz(a,h)anthracene	--	--	23000 0	--	10000 0	690 0	--	0 8	1,000,000
Benzo(g,h,i)perylene	--	--	50000 0 D	--	18000 0 D	2200 0	65 0 J	--	1,000,000
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
PESTICIDES									
Dieldrin	--	--	66 0 DP	3 6 P	--	4 8 P	--	0 4	11,000
4,4'-DDE	--	--	--	14 0 P	9 3 P	5 4 P		17 0	500,000
4,4'-DDD	--	--	18 0 P	6 6	4 6 P	29 0	--	24 0	710,000
Endosulfan sulfate	--	--	50 0 P	--				--	--
4,4'-DDT	--	--	67 0 D	5 5 P	6 5 P	8 0	--	17 0	390,000
Endrin Ketone	--	--	100 0 DP	17 0 P	19 0	7 8 P		--	--
Endrin aldehyde	--	--	210 0 DP	19 0 P	4 3 P	6 8 P	--	--	--
alpha-Chlorodane	--	--	--	--	--	7 5	4 3	4 0	--
gamma-Chlorodane	--	--	84 0 DP	--	--	5 2 P	4 5	4 0	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
INORGANICS									
ALUMINUM	4130	4750	2720	8080	6100	2960	3430	--	310 0
ANTIMONY	--	--	--	--	--	5 8 B	--	820 0	--
ARSENIC	3 2 J	3 0	6 1	4 1	10 1	2 5	2 8	3 0	200 0
BARIUM	78 1	80 0	152	260	709	333	36 8 B	140,000	--
BERYLLIUM	--	--	--	0 83	--	--	--	1 0	40 0
CADMIUM	0 24 B	0 24 B	2 0	1 7	146	1 2	0 98 B	2,000	25 0
CALCIUM	2520	2310	88600	84100 J	37200	61800	44300	--	--
CHROMIUM	6 1	6 8	9 5	30 5	1040	52 4	8 3	10,000	400 0
COBALT	4 5 B	4 7 B	2 1	2 3 B	7 1 B	2 3 B	2 5 B	120,000	--
COPPER	5 9 B	6 0 B	46 1	36 8 J	1350	189	12 2	82,000	5000 0
IRON	6510	6730	32800	11300	18400	7640	6600	--	--
LEAD	19 8	20 4	188	76 9	1510	205	13 9	400 0	1000 0
MAGNESIUM	1150 B	1210 B	54100	35600	10800	27400	26600	--	--
MANGANESE	468	457	366	634	384	281	222	96,000	--
MERCURY	--	--	--	0 14	1 2	0 13	0 060 B	610 0	1600 0
NICKEL	4 9 B	5 7 B	10 1	16 1	110	48 0	8 5 B	41,000	1600 0
POTASSIUM	472 B	543 B	557 B	875	1640	440 B	451 B	--	--
SELENIUM	1 1 B	1 3	1 1 B	1 2	1 3	1 7	1 1	10,000	2300 0
SILVER	--	--	--	--	10 5	--	--	10,000	2300 0
SODIUM	--	--	779 B	617 B	1920	1090 B	--	--	--
VANADIUM	11 1 B	12 6	7 7 B	13 0	17 6	14 1	10 9 B	14,000	--
ZINC	37 3	38 7	750	189	3020	1180	33 3	610,000	160,000
CYANIDE	--	--	0 18 B	0 80	6 5	0 17 B	--	41,000	350 0
pH	7 0 mg/Kg	7 0 mg/Kg	7 0 mg/Kg	7 0 mg/Kg	7 0 mg/Kg	7 0 mg/Kg	7 0 mg/Kg	-- mg/Kg	-- mg/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario

SITE NAME ROCKFORD SAND & GRAVEL
ILO NUMBER 000034371

TABLE E-2
TENTATIVELY IDENTIFIED COMPOUNDS
(Soil)

SAMPLING POINT	X101 11/29/00 (Background)	X102 11/29/00	X103 11/28/00	X104 11/28/00	X105 11/28/00	X106 11/28/00	X107 11/29/00	TACO CLEANUP OBJECTIVES	RAL,s
PARAMETER									
VOLATILES									
Cis-3,5-Dimethylcyclohexanon	--	--	--	120 0 NJ	--	--	--	--	--
Nonane	--	--	--	390 0 NJ	--	--	--	--	--
Cyclohexane, 1-ethyl-2-methy	--	--	--	420 0 NJ	--	--	--	--	--
Bicyclo [3,2,1] octane	--	--	--	190 0 NJ	--	--	--	--	--
Octane, 3,6-dimethyl-	--	--	--	280 0 NJ	--	--	--	--	--
Cyclohexane, propyl-	--	--	--	370 0 NJ	--	--	--	--	--
Nonane, 4-methyl-	--	--	--	310 0 NJ	--	--	--	--	--
Undecane, 5,6-dimethyl-	--	--	--	250 0 NJ	--	--	--	--	--
Decane, 2,5,6-trimethyl-	--	--	--	640 0 NJ	--	--	--	--	--
1-Decene, 3,4-dimethyl-	--	--	--	670 0 NJ	--	--	--	--	--
Benzene, 1-ethyl-2-methyl-	--	--	--	250 0 NJ	--	--	--	--	--
Cyclohexane, 1-methyl-2-prop	--	--	--	340 0 NJ	--	--	--	--	--
Decane	--	--	80 0 NJ	320 0 NJ	--	--	--	--	--
Benzene, 1,2,3-trimethyl-	--	--	--	1100 0 NJ	--	--	--	--	--
Decane, 3-methyl-	--	--	--	220 0 NJ	--	--	--	--	--
Docane, 3-methyl-	--	--	--	350 0 NJ	--	--	--	--	--
Dodecane, 3-methyl-	--	--	--	--	--	--	--	--	--
Cyclohexane, butyl-	--	--	--	270 0 NJ	--	--	--	--	--
1,2,4-trimethylbenzene	--	--	178 0 NJ	510 0 NJ	--	--	--	--	--
Decane, 4-methyl-	--	--	--	300 0 NJ	--	--	--	--	--
Decane, 2-methyl-	--	--	20 0 NJ	430 0 NJ	--	--	--	--	--
Decane, 3-methyl-	--	--	18 0 NJ	310 0 NJ	--	--	--	--	--
Naphthalene, decahydro-	--	--	--	220 0 NJ	--	--	--	--	--
Benzene, 1-methyl-2-(1-methy	--	--	--	140 0 NJ	--	--	--	--	--
Benzene, 1-methyl-3-(1-methy	--	--	--	400 0 NJ	--	--	--	--	--
Benzene, 1-methyl-4-(1-methy	--	--	32 0 NJ	--	--	--	--	--	--
2,3-dihydro-1-methylindene	--	--	--	230 0 NJ	--	--	--	--	--
Bicyclo [2 2 1] heptan-2-one,	--	--	100 0 NJ	250 0 NJ	--	--	--	--	--
Benzene, 1,2,3,5-tetramethyl	--	--	--	260 0 NJ	--	--	--	--	--
Benzene, 2-ethenyl-1,4-dimet	--	--	--	300 0 NJ	--	--	--	--	--
1-H-indene, 2,3-dihydo-1,2-d	--	--	--	170 0 NJ	--	--	--	--	--
Benzene, 1-(1-methylethenyl)	--	--	--	130 0 NJ	--	--	--	--	--
Heptane, 3-methyl-	--	--	11 0 NJ	--	--	--	--	--	--
3-pentanone, 2,4-dimethyl-	--	--	38 0 NJ	--	--	--	--	--	--
1-hexene, 3-methyl-	--	--	24 0 NJ	--	--	--	--	--	--
Cyclohexane, ethyl-	--	--	27 0 NJ	--	--	--	--	--	--
Cyclohexane, 1,1,3-trimethyl	--	--	23 0 NJ	--	--	--	--	--	--
Octane, 4-methyl-	--	--	23 0 NJ	--	--	--	--	--	--
Benzene, 1,2-dimethyl-	--	--	63 0 NJ	--	--	--	--	--	--
3-octyne, 5-methyl-	--	--	25 0 NJ	--	--	--	--	--	--
Nonane, 3-methyl-	--	--	30 0 NJ	--	--	--	--	--	--
Cyclohexane, propyl-	--	--	41 0 NJ	--	--	--	--	--	--
Menth-1(8)-ene	--	--	49 0 NJ	--	--	--	--	--	--
Methylamine, N-(1-methylhexy	--	--	60 0 NJ	--	--	--	--	--	--
Benzene, propyl-	--	--	32 0 NJ	--	--	--	--	--	--
Benzene, 1,2,3-trimethyl-	--	--	98 0 NJ	--	--	--	--	--	--
Benzene, 1-ethyl-2-methyl-	--	--	131 0 NJ	--	--	--	--	--	--
Undecane	--	--	57 0 NJ	--	--	--	--	--	--
Benzene, 1-methyl-2-propyl-	--	--	47 0 NJ	--	--	--	--	--	--
Nonane, 3-methyl-5-propyl-	--	--	22 0 NJ	--	--	--	--	--	--
Benzene, 2-ethyl-1,4-dimethy	--	--	35 0 NJ	--	--	--	--	--	--
Benzene, 1-methyl-4-(1-methy	--	--	32 0 NJ	--	--	--	--	--	--
Pentane	15 0 NJ	7 0 NJ	--	--	--	--	9 0 NJ	--	--
Hexane	--	--	--	--	--	--	13 0 NJ	--	--
Heptanal	--	--	--	--	--	--	5 0 NJ	--	--
Heptane	12 0 NJ	--	--	--	--	--	--	--	--
Hexanal	130 0 NJ	68 0 NJ	--	--	--	--	--	--	--
Carbon dioxide	--	--	--	--	--	--	--	--	--
2-pentene, 4-methyl-	--	--	--	--	--	--	--	--	--
Trimethylene oxide	6 0 NJ	6 0 NJ	--	--	--	--	--	--	--
2-butanone, 3-methyl-	18 0 NJ	16 0 NJ	--	--	--	--	--	--	--
Butanal	12 0 NJ	7 0 NJ	--	--	--	--	--	--	--
Pentanal	28 0 NJ	18 0 NJ	--	--	--	--	--	--	--
Cyclotrisiloxane, hexamethyl	5 0 NJ	--	--	--	--	--	--	--	--
Cyclotetrasiloxane, octameth	16 0 NJ	18 0 NJ	--	--	--	--	--	--	--
2-furancarboxaldehyde	14 0 NJ	14 0 NJ	--	--	--	--	--	--	--
Octanal	8 0 NJ	--	--	--	--	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario

SITE NAME ROCKFORD SAND & GRAVEL
ILO NUMBER 000034371

TABLE E-2
TENTATIVELY IDENTIFIED COMPOUNDS
(Soil)

SAMPLING POINT	X101 11/29/00 (Background)	X102 11/29/00	X103 11/28/00	X104 11/28/00	X105 11/28/00	X106 11/28/00	X107 11/29/00	TACO CLEANUP OBJECTIVES	RAL,s
PARAMETER									
SEMIVOLATILES									
1,1'-biphynyl, 2-methyl-	--	--	--	--	1300 0 NJ	--	--	--	--
1,1'-biphynyl, 3-methyl-	--	--	3300 0 NJ	--	--	--	--	--	--
1,1'-biphynyl, 4-methyl-	--	--	--	--	1400 0 NJ	--	--	--	--
1-Benzopyrylium, 2-(4-chloro	--	--	--	--	830 0 NJ	--	--	--	--
1-Eicosanol	1500 0 NJ	--	--	--	--	--	--	--	--
1-Fluorononane	--	110 0 NJ	--	--	--	--	--	--	--
1-Hentetracontanol	--	760 0 NJ	--	--	--	--	--	--	--
1-Hexacosanal	500 0 NJ	--	--	--	--	--	--	--	--
1-Hexacosanol	--	140 0 NJ	--	--	--	--	--	--	--
1-Hexadecanol	--	170 0 NJ	--	--	--	--	--	--	--
1-Hexadecanol	--	180 0 NJ	--	--	--	--	--	--	--
1-Hexene, 3,3-dimethyl-	--	100 0 NJ	--	--	--	--	--	--	--
1-Naphthalenecarbonitrile	--	--	2700 0 NJ	--	--	--	--	--	--
1-Tridecene	85 0 NJ	--	--	--	--	--	--	--	--
10-Octadecenoic acid, methyl	190 0 NJ	160 0 NJ	--	--	--	--	--	--	--
11H-benzo[a]fluorene	--	--	--	--	2200 0 NJ	--	--	--	--
11H-benzo[b]fluorene	--	--	13400 0 NJ	--	1200 0 NJ	--	--	--	--
15-Octadecenoic acid, methyl	170 0 NJ	--	--	--	--	--	--	--	--
15-Tetracosenoic acid, methy	120 0 NJ	620 0 NJ	--	--	--	--	--	--	--
1H-cycloprop[e]azulene, deca	--	--	--	--	--	490 0 NJ	--	--	--
2-Naphthalenol, 8-amino-	120 0 NJ	--	--	--	--	--	--	--	--
2H-1-benzopyran-2-one	--	--	--	--	--	--	110 0 NJ	--	--
3,4-Dihydrocyclopenta(cd)pyr	--	--	2900 0 NJ	--	860 0 NJ	--	--	--	--
3,4-Octadiene, 7-methyl-	--	140 0 NJ	--	--	--	--	--	--	--
3-methyl-4- (methyoxycarbonyl)	--	--	--	1800 0 NJ	--	--	--	--	--
4,5-Dihydro-4,5-epoxybenzpyr	--	--	18000 0 NJ	--	--	--	--	--	--
4-Hexen-3-one, 5-methy-	--	--	--	--	--	560 0 NJ	--	--	--
4H-cyclopenta[def] phenanthre	--	--	4800 0 NJ	--	--	--	--	--	--
5-Hydroxy-4-methoxy-6h-indol	--	--	5500 0 NJ	--	--	--	--	--	--
7H-benz[de]anthracen-7-one	--	--	--	--	1660 0 NJ	--	--	--	--
9,12-Octadecadienoic acid (Z	200 0 NJ	--	--	--	--	--	--	--	--
9-Hexadecenoic acid, methyl	590 0 NJ	720 0 NJ	--	--	--	--	--	--	--
9-Hexadecenoic acid, methyl es	--	240 0 NJ	--	--	--	--	--	--	--
9H-fluorene, 2,3-dimethyl-	--	--	--	2000 0 NJ	--	--	--	--	--
9H-fluorene, 2-methyl-	--	--	--	1800 0 NJ	--	--	--	--	--
9H-fluorene, 9-(phenylmethyl	--	--	21000 0 NJ	--	--	--	--	--	--
Anthracene, 1,8-diethynyl-	--	--	3400 0 NJ	--	--	--	--	--	--
Anthracene, 1-methyl-	--	--	2800 0 NJ	--	790 0 NJ	540 0 NJ	--	--	--
Anthracene, 2-methyl-	--	--	--	--	980 0 NJ	--	--	--	--
Anthracene, 9-methyl-	--	--	--	1700 0 NJ	--	--	--	--	--
Azulene, 7-ethyl-1,4-dimethy	--	--	--	3100 0 NJ	--	--	--	--	--
Benz[j]aceanthrylene, 3-meth	--	--	--	--	2700 0 NJ	--	--	--	--
Benzene, 1,1'-methylenebis[3	--	--	--	2400 0 NJ	--	--	--	--	--
Benzene, 1-(1-methylethenyl)	--	--	--	1400 0 NJ	--	--	--	--	--
Benzene, 1-methyl-2-(2-pheny	--	--	--	1900 0 NJ	--	--	--	--	--
Benzene, [1,-(2,4-cyclopentad	--	--	2300 0 NJ	--	--	--	--	--	--
Benzeneacetaldehyde	--	95 0 NJ	--	--	--	--	--	--	--
Benzo[b]naphtho[2,1-d]thioph	--	--	2900 0 NJ	--	100 0 NJ	--	--	--	--
Benzo[b]triphenylene	--	--	13000 0 NJ	--	--	--	--	--	--
Benzo[c]phenanthrene	--	--	3300 0 NJ	--	--	--	--	--	--
Benzo[e]pyrene	--	--	--	--	--	780 0 NJ	--	--	--
Benzo[e]pyrene	--	--	--	--	--	--	77 0 NJ	--	--
Benzo[ghi] perylene	--	--	6200 0 NJ	--	--	--	--	--	--
Benzo[ghi]fluoranthene	--	--	--	--	940 0 NJ	--	--	--	--
Benzo[k]fluoranthene	--	--	40000 0 NJ	--	11000 0 NJ	--	--	--	--
Benzoyl chloride	--	290 0 NJ	--	--	--	--	--	--	--
Bicyclo [2 2 1] heptan-2-one,	--	--	--	--	--	2800 0 NJ	--	--	--
Butanoic acid, 3-hydroxy-, M	380 0 NJ	380 0 NJ	--	--	--	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario

SITE NAME ROCKFORD SAND & GRAVEL
ILO NUMBER 000034371

TABLE E-2
TENTATIVELY IDENTIFIED COMPOUNDS
(Soil)

SAMPLING POINT	X101 11/29/00 (Background)	X102 11/29/00	X103 11/28/00	X104 11/28/00	X105 11/28/00	X106 11/28/00	X107 11/29/00	TACO CLEANUP OBJECTIVES	RAL;s
PARAMETER									
SEMIVOLATILES									
Cyclopropane, 1-ethyl-2-hept	83 0 NJ	--	--	--	--	--	--	--	--
Decane	--	--	--	--	--	910 0 NJ	--	--	--
Dibenz[a,h]anthracene	--	--	9400 0 NJ	--	14800 0 NJ	--	--	--	--
Dibenzofuran, 4-methyl-	--	--	8800 0 NJ	--	1800 0 NJ	--	--	--	--
Dibenzothiophene, 3-methyl-	--	--	--	2400 0 NJ	--	--	--	--	--
Dibenzothiophene, 4-methyl-	--	--	--	1900 0 NJ	--	--	--	--	--
Docosane	110 0 NJ	--	--	--	--	--	--	--	--
Dodecane, 2,6,11-trimethyl-	--	--	--	--	--	560 0 NJ	--	--	--
Dotriacontane	--	--	--	--	--	--	120 0 NJ	--	--
Eicosane	--	--	--	--	--	530 0 NJ	--	--	--
Fluorene, 2,4a-dihydro-	--	--	7900 0 NJ	--	--	--	--	--	--
Heneicosene	170 0 NJ	--	--	--	--	--	--	--	--
Heptacosane	--	--	--	--	--	930 0 NJ	--	--	--
Heptadecane	--	--	--	--	--	1200 0 NJ	--	--	--
Heptadecane, 9-octyl-	--	--	--	--	--	2000 0 NJ	--	--	--
Hexadecane	--	--	--	--	--	610 0 NJ	--	--	--
Hexadecanoic acid	160 0 NJ	450 0 NJ	--	--	--	7300 0 NJ	--	--	--
Hexadecanoic acid, methyl es	250 0 NJ	--	--	--	--	--	--	--	--
Muristoyl, pantetheine	--	--	--	--	--	880 0 NJ	--	--	--
Naphthalene, 1,4,6-trimethyl	--	--	--	2300 0 NJ	860 0 NJ	--	--	--	--
Naphthalene, 1,5-dimethyl-	--	--	8600 0 NJ	--	1000 0 NJ	--	--	--	--
Naphthalene, 1,6,7-trimethyl	--	--	--	4900 0 NJ	860 0 NJ	--	--	--	--
Naphthalene, 1,7-dimethyl-	--	--	--	1900 0 NJ	--	--	--	--	--
Naphthalene, 1,8-dimethyl-	--	--	11000 0 NJ	--	--	--	--	--	--
Naphthalene, 1-(2-propenyl)-	--	--	4400 0 NJ	--	--	--	--	--	--
Naphthalene, 1-ethyl-	--	--	--	1300 0 NJ	--	--	--	--	--
Naphthalene, 1-methyl-	--	--	18000 0 NJ	--	--	--	--	--	--
Naphthalene, 1-methyl-7-(1-M)	--	--	--	1500 0 NJ	--	--	--	--	--
Naphthalene, 2,3,6-trimethyl	--	--	--	4400 0 NJ	850 0 NJ	--	--	--	--
Naphthalene, 2,3-dimethyl-	--	--	4600 0 NJ	--	3400 0 NJ	--	--	--	--
Naphthalene, 2,6-dimethyl-	--	--	4800 0 NJ	4600 0 NJ	1700 0 NJ	790 0 NJ	--	--	--
Naphthalene, 2-ethyl-	--	--	2500 0 NJ	--	--	--	--	--	--
Naphthalene, 2-methyl-	--	--	--	2800 0 NJ	2300 0 NJ	--	--	--	--
Naphtho[2,3-b] furan-9(4h)-on	--	--	--	--	--	1200 0 NJ	--	--	--
Nonanoic acid, 7-methyl-, me	--	130 0 NJ	--	--	--	--	--	--	--
Octadecanal	--	160 0 NJ	--	--	--	--	--	--	--
Octadecane	--	--	--	2000 0 NJ	--	--	--	--	--
Octadecane, 1-chloro-	260 0 NJ	--	--	--	--	--	--	--	--
Octane, 3,5-dimethyl-	--	--	--	--	--	900 0 NJ	--	--	--
Oxirane, hexadecyl-	680 0 NJ	130 0 NJ	--	--	--	--	--	--	--
Pentadecanal-	260 0 NJ	84 0 NJ	--	--	--	--	--	--	--
Pentadecane	--	220 0 NJ	--	3100 0 NJ	--	550 0 NJ	--	--	--
Pentadecane, 2,6,10,14-tetra	--	--	--	--	--	1400 0 NJ	--	--	--
Perylene	--	--	87000 0 NJ	--	44000 0 NJ	--	--	--	--
Phenanthene, 1-methyl-	--	--	--	5600 0 NJ	--	--	--	--	--
Phenanthrene, 2,3,5-trimethy	--	--	--	1500 0 NJ	--	--	--	--	--
Phenol, 3-(2-phenylethyl)-	--	--	--	--	--	6100 0 NJ	--	--	--
Pyrene	--	--	--	--	4200 0 NJ	--	--	--	--
Pyrene, 2-methyl-	--	--	--	--	810 0 NJ	--	--	--	--
Quinoline, 6-methyl-, 1-oxid	--	--	--	--	--	520 0 NJ	--	--	--
S-Indacen-1 (2H)-one,3,5,6,7	--	--	--	6600 0 NJ	--	--	--	--	--
Tetradecane	--	--	--	--	--	--	--	--	--
Tetradecane	--	--	--	3000 0 NJ	--	1000 0 NJ	--	--	--
Tetradecanoic acid	--	--	--	--	--	1300 0 NJ	--	--	--
Tetradecanoic acid, methyl e	--	97 0 NJ	--	--	--	--	--	--	--
Tetratetracontane	84 0 NJ	--	--	--	--	--	--	--	--
Thymol	--	--	--	--	--	570 0 NJ	--	--	--
Tridecanoic acid, methyl est	120 0 NJ	--	--	--	--	--	--	--	--
Triphenylene, 2-methyl-	--	--	--	--	770 0 NJ	--	--	--	--
Undecane	--	--	--	--	--	680 0 NJ	--	--	--
Undecanoic acid, methyl este	99 0 NJ	83 0 NJ	--	--	--	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario

SITE NAME ROCKFORD SAND & GRAVEL
ILO NUMBER 000034371

TABLE E-3
SAMPLE SUMMARY
(Sediment)

SAMPLING POINT	X201 11/29/00 (Background)	X202 11/29/00	X203 11/29/00	X204 11/29/00	X205 11/29/00	X206 11/29/00	X207 11/29/00	Ontario Sediment Benchmarks	USEPA Ecotox Thresholds
PARAMETER									
VOLATILES									
Methylene Chloride	9 0 J	7 0 J	26 0	9 0 J	5 0 J	27 0	40 0 J	--	--
Acetone	17 0	22 0	16 0	25 0	23 0	100 0	130 0	--	--
Carbon Disulfide	--	--	--	4 0 J	--	15 0 J	16 0 J	--	--
Methyl Acetate	--	--	--	--	--	14 0 J	--	--	--
cis-1,2-Dichloroethene	9 0 J	11 0 J	--	--	--	--	--	--	--
2-Butanone (MEK)	--	--	--	--	--	9 0 J	20 0 J	--	--
Cyclohexane	--	--	--	--	--	--	24 0 J	--	--
1,1,1-Trichloroethane	6 0 J	6 0 J	--	--	--	--	--	--	170 0
Trichloroethene	130 0	130 0	--	--	--	--	--	--	--
Methylcyclohexane	6 0 J	7 0 J	--	--	--	--	36 0 J	--	--
Benzene	--	--	--	--	--	--	42 0 J	--	57 0
Tetrachloroethene	64 0	67 0	--	--	--	--	--	--	
Toluene	7 0 J	8 0 J	--	7 0 J	--	11 0 J	54 0	--	670 0
Ethylbenzene	--	--	--	--	--	--	16 0 J	--	3,600
Xylene(total)	5 0 J	5 0 J	--	--	--	--	30 0 J	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
SEMIVOLATILES									
Naphthalene	--	--	--	--	--	100 0 J	--	--	480 0
Acenaphthylene	--	--	--	--	110 0 J	--	--	--	--
Acenaphthene	--	--	--	--	--	130 0 J	--	--	620 0
Dibenzofuran	--	--	--	--	--	100 0 J	--	--	2,000
Fluorene	--	--	--	--	--	170 0 J	--	--	540 0
Phenanthrene	170 0 J	290 0 J	--	200 0 J	350 0 J	1200 0	--	--	850 0
Anthracene	44 0 J	100 0 J	--	57 0 J	120 0 J	290 0 J	--	--	--
Carbazole	--	--	--	--	--	150 0 J	--	--	--
Di-n-Butylphthalate	--	--	--	--	90 0 J	--	--	--	11,000
Fluoranthene	340 0 J	530 0	46 0 J	370 0 J	800 0	1400 0	--	--	2,900
Pyrene	320 0 J	550 0	51 0 J	470 0	930 0	1300 0	--	--	660 0
Butylbenzylphthalate	44 0 J	55 0 J	--	--	--	--	--	--	11,000
Benzo(a)anthracene	180 0 J	270 0 J	--	280 0 J	680 0	690 0	--	--	--
Chrysene	200 0 J	310 0 J	--	310 0 J	720 0	720 0	--	--	--
Benzo(b)fluoranthene	150 0 J	230 0 J	--	190 0 J	510 0	550 0 J	--	--	--
Benzo(k)fluoranthene	140 0 J	200 0 J	--	220 0 J	520 0	510 0 J	--	--	--
Benzo(a)pyrene	170 0 J	270 0 J	--	290 0 J	740 0	620 0 J	--	--	430 0
Indeno(1,2,3-cd)pyrene	83 0 J	140 0 J	--	130 0 J	340 0 J	270 0 J	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	140 0 J	--	--	--	--
Benzo(g,h,i)perylene	79 0 J	140 0 J	--	140 0 J	350 0 J	260 0 J	--	--	--
Acetophenone	--	43 0 J	--	59 0 J	68 0 J	80 0 J	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PESTICIDES None Detected									
INORGANICS									
ALUMINUM	2930	5810	5060	3900	12400	2510	4500	--	--
ARSENIC	2 1 B	2 4 B	1 9 B	2 3 B	4 6	2 0 B	2 0 B	6 0	--
BARIUM	28 1 B	42 3 B	28 8 B	43 7 B	138	29 4 B	71 1	--	--
CADMIUM	0 21 B	0 40 B	0 10 B	0 23 B	1 3 B	0 65 B	0 26 B	6	--
CALCIUM	87700	29900	33300 J	19200	13900	22400	54500	--	--
CHROMIUM	4 7	22 5	12 8	7 2	21 3	8 8	8 7	--	--
COBALT	--	2 8 B	4 0 B	2 9 B	9 0 B	2 2 B	4 2 B	50 0	--
COPPER	7 2	10 1	18 5	8 5	27 9	7 6	6 8 B	16 0	--
IRON	4860	7610	7600	6360	20100	4810	8800	20,000	--
LEAD	15 5	74 7	6 9	18 3	65 9	8 5	7 0	31 0	--
MAGNESIUM	45700	17600	20100	9060	8650	10700	11200	--	--
MANGANESE	185	107	79 2	140	293	122	334	460 0	--
MERCURY	0 090 B	--	0 060 B	0 11 B	2 3	0 090 B	--	0 2	--
NICKEL	4 7 B	7 9 B	11 5	6 0 B	21 0	5 3 B	9 0 B	16 0	--
POTASSIUM	347 B	622 B	450 B	471 B	1220 B	334 B	622 B	--	--
SELENIUM	--	0 77 B	1 2 B	1 0 B	1 2 B	0 68 B	1 3 B	--	--
SILVER	--	--	--	--	2 1 B	--	--	0 5	--
SODIUM	--	--	265 B	--	341 B	--	--	--	--
VANADIUM	8 4 B	14 5	29 8	10 0 B	27 0	9 1 B	12 1 B	--	--
ZINC	26 9	57 5	28 1	50 7	161	41 8	39 1	120 0	--
pH	7 0	7 0	7 0	7 0	7 0	7 0	7 0		
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

SITE NAME ROCKFORD SAND & GRAVEL
ILO NUMBER 000034371

TABLE E-4
SAMPLE SUMMARY
TENTATIVELY IDENTIFIED COMPOUNDS
(Sediment)

SAMPLING POINT	X201 11/29/00 (Background)	X202 11/29/00	X203 11/29/00	X204 11/29/00	X205 11/29/00	X206 11/29/00	X207 11/29/00	Ontario Sediment Benchmarks	USEPA Ecotox Thresholds
PARAMETER									
VOLATILES									
Hexane	--	--	--	--	--	--	78 0 NJ	--	--
Carbon dioxide	--	--	770 0 NJ	--	1200 0 NJ	--	2100 0 NJ	--	--
2-pentene, 4-methyl-, (E)	--	--	10 0 NJ	--	--	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
SEMIVOLATILES									
(6H) cyclobuta[jk]phenanthren	--	--	--	110 0 NJ	--	--	--	--	--
(R)-(-)-(z)-14-methyl-8-hexa	--	--	--	--	190 0 NJ	--	--	--	--
Delta -selinene	--	--	--	--	--	--	110 0 NJ	--	--
1,4-Butanediamine	--	--	--	110 0 NJ	--	--	--	--	--
1-Docosene	--	--	--	--	--	140 0 NJ	--	--	--
1-Dotriacontanol	--	--	--	--	--	350 0 NJ	--	--	--
1-Eicosanol	--	--	--	--	--	420 0 NJ	--	--	--
1-Hexacosanal	--	--	--	--	--	6800 0 NJ	--	--	--
1-Octanol, 2-butyl-	110 0 NJ	--	--	--	--	--	--	--	--
10-Nonadecanone	--	--	--	--	--	270 0 NJ	--	--	--
10-methylnonadecane	--	--	--	98 0 NJ	--	--	--	--	--
11-Ticosene	110 0 NJ	--	--	--	--	--	--	--	--
11H-benzo[a]fluorene	--	--	--	--	120 0 NJ	--	--	--	--
11H-benzo[b]fluorene	--	100 0 NJ	--	110 0 NJ	319 0 NJ	280 0 NJ	--	--	--
1H-Cycloprop[e]azulene, deca	--	--	--	--	--	190 0 NJ	--	--	--
1H-cycloprop[e]azulene, 1a,2	--	--	--	--	100 0 NJ	--	150 0 NJ	--	--
2(1H)-naphthalene, 4a,5,6,	--	--	--	--	--	--	610 0 NJ	--	--
2(1H)-phenanthrenone, 3,4,4A	--	--	--	--	--	710 0 NJ	--	--	--
4H-cyclopenta[def]phenanthre	--	110 0 NJ	--	--	--	280 0 NJ	--	--	--
8-Hexadecyne	--	--	--	--	--	--	530 0 NJ	--	--
Anthracene, 2-methyl-	--	--	--	130 0 NJ	160 0 NJ	140 0 NJ	--	--	--
Anthracene, 9-methyl-	--	91 0 NJ	--	--	--	--	--	--	--
Aspidofractinine, 3-methylen	--	--	--	94 0 NJ	--	--	--	--	--
Azulene, 1,2,3,4,5,6,7,8-oct	--	--	--	--	--	--	250 0 NJ	--	--
Benzo[a]pyrene	--	--	--	--	280 0 NJ	--	--	--	--
Benzo[e]pyrene	110 0	200 0 NJ	--	120 0 NJ	--	360 0 NJ	--	--	--
Benzo[k]fluoranthene	--	--	--	--	500 0 NJ	--	--	--	--
Butanoic acid, 3-hydroxy-, M	--	--	--	--	--	350 0 NJ	--	--	--
Chrysene, 6-methyl-	--	--	--	--	97 0 NJ	--	--	--	--
Cycloheptane, methyl-	--	--	--	--	--	--	380 0 NJ	--	--
Cyclopropa[d]naphthalen-2(4a	--	--	--	--	--	--	370 0 NJ	--	--
Cyclopropane, 1-heptyl-2-met	99 0 NJ	--	--	110 0 NJ	--	--	--	--	--
Docosane	--	--	--	330 0 NJ	--	--	--	--	--
Dodecane, 2,6,10-trimethyl-	--	--	--	--	--	--	270 0 NJ	--	--
Ether, methyl 1-tetradecenyl	--	--	--	--	530 0 NJ	--	--	--	--
Fluoranthene	--	--	--	--	130 0 NJ	--	--	--	--
Hexadecanoic acid	--	--	--	--	--	420 0 NJ	--	--	--
Hexatriacontane	--	--	--	170 0 NJ	--	--	--	--	--
Lycopodan-5-one, 12-hydroxy-	--	--	--	--	230 0 NJ	--	--	--	--
Naphthalene, 2- (phenylmethyl	--	--	--	--	--	570 0 NJ	--	--	--
Naphthalene, 2-phenyl-	--	--	--	98 0 NJ	100 0 NJ	--	--	--	--
Nonacosane	--	--	--	--	--	3500 0 NJ	--	--	--
Nonadecane	--	--	--	260 0 NJ	--	--	--	--	--
Nonadecanol	--	--	--	--	--	420 0 NJ	--	--	--
Octadecanal	--	--	--	--	--	3030 0 NJ	--	--	--
Oxirane, hexadecyl-	140 0 NJ	--	--	1640 0 NJ	510 0 NJ	7480 0 NJ	150 0 NJ	--	--
Oxirane, tetradecyl-	--	190 0 NJ	--	--	--	--	--	--	--
Pentadecanal	--	--	--	--	--	--	96 0 NJ	--	--
Pentane, 1,1'-oxybis-	--	--	--	--	--	600 0 NJ	--	--	--
Pentatriacontane	--	--	--	--	--	3660 0 NJ	--	--	--
Phenanthrene, 2,5-dimethyl-	--	--	--	--	330 0 NJ	--	--	--	--
Phenanthrene, 3-methyl-	--	--	--	--	130 0 NJ	--	--	--	--
Pyrene, 1-methyl-	--	--	--	--	254 0 NJ	--	--	--	--
Tetratetracontane	--	--	--	--	770 0 NJ	300 0 NJ	--	--	--
Tetratriacontane	--	--	--	--	460 0 NJ	--	110 0 NJ	--	--
Tetradecanal	--	170 0 NJ	--	--	--	--	--	--	--
Tridecanal	120 0 NJ	--	--	--	--	--	--	--	--
Triphenylene, 2-methyl-	--	--	--	--	150 0 NJ	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg

SITE NAME ROCKFORD SAND & GRAVEL
ILO NUMBER 000034371

TABLE E-5
SAMPLE SUMMARY
Groundwater
(Residential Wells)

SAMPLING POINT	G201 11/28/2000 (Background)	G202 11/28/2000	G203 11/29/2000	G204 11/29/2000	G205 11/29/2000	G206 11/29/2000	G207 11/29/2000	TACO Tier 1 Class 1 Groundwater	MCL's
PARAMETER									
VOLATILES									
Vinyl Chloride	--	--	--	--	--	--	0 6 J	2 0	--
1,1-Dichloroethane	--	--	--	--	--	--	2 0	700 0	--
Chloroform	--	--	--	--	--	--	0 7 J	0 02	--
cis-1,2-Dichlorethene							11 0	70 0	--
Trichloroethene	--	--	--	--	1 0	1 0	0 8 J	5 0	5 0
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SEMIVOLATILES									
None detected	--	--	--	--	--	--	--	--	--
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PESTICIDES									
None detected	--	--	--	--	--	--	--	--	--
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
INORGANICS									
Aluminum	61 5 BJ	68 7 BJ	73 2 BJ	66 0 BJ	65 3 BJ	68 6 BJ	72 0 BJ	--	--
Barium	209 0	207 0	69 2	43 9	71 9	140 0	263 0	2000 0	2000 0
Cadmium	--	--	0 3 M	--	--	--	--	5 0	5 0
Calcium	92600 0	92700 0	116000 0	84600 0	94000 0	105000 0	104000 0	--	--
Copper	14 1	12 5	40 2	3 7 BJ	27 5	75 8	12 8	650 0	--
Iron	18 2 BJ	25 8 BJ	26 1 BJ	6 2 MBJ	4 7 MBJ	416 0	19 5 BJ	5000 0	1000 0
Lead	--	--	2 0 MD	--	--	20 0 D	--	7 5	--
Magnesium	40200 0	40200 0	52000 0	40700 0	39900 0	42700 0	42400 0	--	--
Manganese	0 9 M	1 0 M	2 3	--	--	22 9	45 9	150 0	150 0
Nickel	1 3 MB	1 0 MB	2 6 BJ	0 9 MB	5 0 BJ	1 7 MB	0 9 MB	100 0	100 0
Potassium	3090 0	3190 0	2790 0	965 0	2790 0	2820 0	3180 0	--	--
Sodium	53100 0	54000 0	18500 0	15700 0	50800 0	49100 0	14000 0	--	--
Zinc	65 4 BJ	68 9 BJ	173 0	40 8 BJ	12 4 MB	56 3 BJ	58 0 BJ	5000 0	5000 0
PH	--	--	--	--	--	--	--	--	--
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

TACO values are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives The objectives presented in this table are based on Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route

JAN 3 1 2001

PAGE 1 OF

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT. Review of Data
Received for Review on 12-28-00

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 Rockford Sand + Gravel (IL)

CASE NUMBER 28771 SDG NUMBER: EE03J

Number and Type of Samples: 14 (Soil)

Sample Numbers EE03J-H, EE03T, EE040-8

Laboratory Accurat Hrs for Review:

Following are our findings.

CC Cecilia Moore
Region 5 TPO
Mail Code SM-5J

RECEIVED
FEB 1 4 2001
IEPA-BOL-FSRS

LABORATORY: ACCURA **CASE: 28771**
SITE: ROCKFORD GRAVEL (IL) **SDG: EE03J**

A total of fourteen (14) soil samples numbered EE03J - 3M, EE03T, EE040 - EE048, were on collected 11/27, 28 and 29/00. Accura Analytical Laboratory of Norcross, GA received the samples on 11/29 and 30/00 in good condition. All samples were analyzed for the full list of organic analytes for VOA, SVOA and Pest/PCBs. All samples were analyzed per CLP SOW OLM04.2.

Sample EE03L was used for the VOA, SVOA and Pest/PCBs matrix spike/matrix spike duplicate (MS/MSD) analysis.

There were no samples identified as duplicates , field Blanks or trip blanks.

The volatile samples were analyzed within the hold time of 14 days. The SVOA samples and the Pest/PCB samples were extracted within the holding time of fourteen days for soil samples. The extracts were then promptly analyzed, within 40 days; therefore, the results are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: W. Ira Wilson____Lockheed-Martin/ESAT

Date: January 31, 2001

NARRATIVE

LABORATORY: ACCURA
SITE: ROCKFORD GRAVEL

CASE: 28771
SDG: EE03J

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

1. HOLDING TIME

A total of fourteen (14) soil samples numbered EE03J - EE03m, EE03T, EE040 - EE048, were collected on 11/27, 28 and 29/00. Accvura Analytical laboratories of Norcross, GA received the samples on 11/29 and 30/00, in good condition. All samples were analyzed for the full list of organic analysts for SVOA and Pest/PCBs. All samples were analyzed per CLP SOW OLM04.2.

The VOA samples were analyzed within the 14 day holding time criteria. The SVOA and the Pest/PCB samples were extracted within the technical holding time of fourteen (14) days for soil samples. The extracts were then promptly analyzed, within 40 days; therefore, the results are acceptable.

2. GC/MS TUNING AND GC PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

DDT and Endrin degradation check using Performance Evaluation Mix on the RTX-35 and DB-1701 columns were acceptable (<20%).

The GC Resolution Check mixtures met the 60% resolution criteria.

The Florisil Cartridge Check and the GPC Check met the required QC criteria; therefore, the results are acceptable.

3. CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCBs were evaluated for the Target Compounds List (TCL) and

Reviewed by: W. Ira Wilson__Lockheed Martin/ESAT

Date:__January 31, 2001__

outliers were recorded on the outlier forms included as a part of this narrative.

4. METHOD BLANK

The volatile Method Blanks VBLK02, VBLK03, VBLK04 and VBLK05 all reported a detectable amount of Acetone and at least one TIC. The present of acetone in samples associated with the Method Blanks is qualified as non-detected (U) when the sample result is less than 10X the blank result.
The SVOA fraction, SBLK1 and SBLK3 are the soil Method Blanks. The Method Blank SBLK1 reported a detectable amount of bis(2-Ethylhexyl)phthalate (1700µg/Kg) and no TICs. The analyte is a common laboratory contaminant. Therefore, the presence of this analyte in the samples associated with the Method Blank, SBLK1, is qualified as non-detected (U) when the sample results are less than ten (10) times the Blank results. The Method Blank SBLK3 was clean.

Please refer to Form-IV VOA and SVOA for a list of associated samples.

For the Pest/PCB fraction, PBLK01 is the soil Method Blank. The Blank was clean.

Please refer to Form IV PEST for a list of associated samples.

5. SURROGATE RECOVERY AND SYSTEM MONITORING COMPOUNDS

In the volatile fraction, the system monorating compound SMC2 was reported low outside of QC criteria in samples EE03J, 3K, 3L, EE03LMS, EE047, EE03LDL, and EE03KDL. Therefore, positive results in these samples are qualified as estimated (J) and non-detected as estimated (UJ).

The recovery of the Surrogate Compounds for the semivolatile analysis samples EE047 and EE048 in the acid fraction, reported the

U[illegible]PA Contract Laboratory Program
Organic Traffic Report

11/30/00 09 20

Case No. 28771
DAS No.
SDG No

Date Shipped 11/29/00
Carrier Name: Fed Ex
Airbill: 4684286585
Shipped to:
Accura Analytical Laboratory
6017 Financial Drive
Norcross GA 30071
(770) 449-8800

Date Received/Received by: Bonnie Hogue
Lab Contract No _____ Unit Price _____

Transfer To _____
Date Received/Received By _____
Contract No. _____ Price _____

Sampler (Signature) [illegible] 11/29/00

Relinquished By	Date / Time	Received By:
Relinquished By	Date / Time	Received By.
Relinquished By	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No / Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE044	Sediment	L/G	BNA (21) PEST (21) VOA (21)	5-55017 (Ice Only) 5-55018 (Ice Only) 5-55019 (Ice Only) (3)	X207	11/29/2000 15 00	MEE044	Intact AC03963
EE045	Sediment	L/G	BNA (21) PEST (21), VOA (21)	5-55021 (Ice Only) 5-55022 (Ice Only) 5-55023 (Ice Only) (3)	X201	11/29/2000 15 40	MEE045	Intact AC03164
EE046	Sediment	L/G	BNA (21), PEST (21), VOA (21)	5-55025 (Ice Only), 5-55026 (Ice Only), 5-55059 (Ice Only) (3)	X202	11/29/2000 15 40	MEE046	Intact AC03965
EE047	Soil/Sediment	L/G	BNA (21) PEST (21) VOA (21)	5-55061 (Ice Only), 5-55062 (Ice Only) (2)	X101	11/29/2000 15 50	MEE047	Intact AC03966
EE048	Soil/Sediment	L/G	BNA (21) PEST (21) VOA (21)	5-55065 (Ice Only) 5-55066 (Ice Only) (2)	X102	11/29/2000 15 50	MEE048	Intact AC03967

000007

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC: ~~EE031~~ X703	Additional Sampler Signature(s):	Chain of Custody Seal Number 20047	Cooler Temperature Upon Receipt:

Analysis Key Below: Concentration: L = Low M = Low/Medium H = High Type/Designate: Composite = C Grab = G
BNA=CLP TCL Semivolatiles,PEST=CLP TCL Pesticide/PCBs,VOA=CLP TCL Volatiles

Custody Seal Intact? Shipment Iced?

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr. Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0004

F2V4 0

USEPA Contract Laboratory Program
Generic Traffic Report/Chain-of-Custody Record

Case No. 28771
DAS No
SDG No

L

Date Shipped 11/29/00 Carrier Name Fed Ex Airbill. 4684286585 Shipped to Accura Analytical Laboratory 6017 Financial Drive Norcross GA 30071 (770) 449-8800	Date Received/Received by. Lab Contract No · Unit Price Transfer To Date Received/Received By. Contract No Price.	Sampler (Signature) 11/29/00 Relinquished By / Date / Time / Received By: Relinquished By / Date / Time / Received By: Relinquished By / Date / Time / Received By:

SAMPLE No	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
X101	Soil/Sediment	L/G	Dr (21)	5-55063 (Ice Only) (1)	X101	11/29/2000 15 50		AC03966
X102	Soil/Sediment	L/G	Dr (21)	5-55067 (Ice Only) (1)	X102	11/29/2000 15 50		AC03967
X107	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-120199 (Ice Only) (1)	X107	11/29/2000 09 45		AC03968

000008

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC: X103	Additional Sampler Signature(s):	Chain of Custody Seal Number 20041	Cooler Temperature Upon Receipt:
Analysis Key Below: Dr=Dry Weight	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact?	Shipment Iced?

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to Cor aboratory Analytical Services Support, 2000 Edmund Halley Dr Reston VA 20191-3436 Phon ?/264-9348 Fax 703/264-9222

TR NumL : 05-405012729-112900-0005

F2V4.0 Pa of 1

U.S.EPA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No

11/30/00 09 20

Date Shipped. 11/29/00
Carrier Name Fed Ex
Airbill: 4684286585
Shipped to:
Accura Analytical Laboratory
6017 Financial Drive
Norcross GA 30071
(770) 449-8800

Date Received/Received by Bonnie Hague
Lab Contract No : _____ Unit Price. _____

Transfer To: _____
Date Received/Received By: _____
Contract No.: _____ Price: _____

Sampler (Signature) [signature] 11/29/00

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No / Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
~~EE03G~~ MEW	Potable Well / Mark Wagner	~~L/G~~	~~VOA (21)~~	~~5-120692 (H2SO4), 5-120693 (H2SO4), 5-120694 (H2SO4), 5-120695 (H2SO4), 5-120696 (H2SO4) (5)~~	~~G201~~	~~11/28/2000 10 00~~	~~MEE03G~~	
~~EE03H~~ MEW	~~Potable Well /~~ Mark Wagner	~~L/G~~	~~VOA (21)~~	~~5-120782 (H2SO4), 5-120783 (H2SO4), 5-120784 (H2SO4), 5-120785 (H2SO4), 5-120786 (H2SO4) (5)~~	~~G202~~	~~11/28/2000 10 00~~	~~MEE03H~~	
EE03J	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-120788 (Ice Only) (1)	X104	11/28/2000 13 00	MEE03J	Broken AC03954 ~~Intact~~ BJH 11/30/00
EE03K	Soil/Sediment / Mark Wagner	L/G	BNA (21) PEST (21)	5-120792 (Ice Only) (1)	X105	11/27/2000 11 40	MEE03K	Intact AC03955
EE03L	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-120796 (Ice Only) (1)	X103	11/28/2000 15 30	MEE03L	Intact AC03956
EE03M	Soil/Sediment / Mark Wagner	L/G	BNA (21) PEST (21)	5-120842 (Ice Only) (1)	X106	11/28/2000 16 30	MEE03M	Intact AC03957
EE03T	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21) VOA (21)	5-120197 (Ice Only) 5-120198 (Ice Only) (2)	X107	11/29/2000 09 45	MEE03T	Intact AC03958
EE040	Sediment	L/G	BNA (21), PEST (21), VOA (21)	5-55001 (Ice Only), 5-55002 (Ice Only), 5-55003 (Ice Only) (3)	X203	11/29/2000 13 15	MEE040	Intact AC03959
EE041	Sediment	L/G	BNA (21), PEST (21), VOA (21)	5-55005 (Ice Only), 5-55006 (Ice Only), 5-55007 (Ice Only) (3)	X204	11/29/2000 13 35	MEE041	Intact AC03960
EE042	Sediment	L/G	BNA (21), PEST (21), VOA (21)	5-55009 (Ice Only), 5-55010 (Ice Only), 5-55011 (Ice Only) (3)	X205	11/29/2000 14 00	MEE042	Intact AC03961
EE043	Sediment	L/G	BNA (21), PEST (21), VOA (21)	5-55013 (Ice Only), 5-55014 (Ice Only), 5-55015 (Ice Only) (3)	X206	11/29/2000 14 30	MEE043	Intact AC03962

00006

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC: ~~EE03H~~ X103	Additional Sampler Signature(s):	Chain of Custody Seal Number 20041	Cooler Temperature Upon Receipt:

Analysis Key Below: 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

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0004

F2V4.0

USEPA Contract Laboratory Program
Generic Traffic Report/Chain-of-Custody Record

Case No.	28771
DAS No.	
SDG No.	EE03J

L

Date Shipped: 11/28/00 Carrier Name: Fed Ex Airbill: 4684286552 Shipped to: Accura Analytical Laboratory 6017 Financial Drive Norcross GA 30071 (770) 449-8800	Date Received/Received by: Bonnie O'Hogue 11/29/00 09:10 Lab Contract No.: 68W01001 Unit Price: $390.00 Transfer To: Date Received/Received By: Contract No : Price:	Sampler (Signature) Mark Wagner 11/28/00 Relinquished By:	Date / Time	Received By:
		Relinquished By:	Date / Time	Received By:
		Relinquished By:	Date / Time	Received By:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME		SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
X103	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-120799 (Ice Only) (1)	X103	11/28/2000	15 30	AC03913	Intact
X104	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-120790 (Ice Only) (1)	X104	11/28/2000	13 00	AC03914	Intact
X105	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-120794 (Ice Only) (1)	X105	11/27/2000	11 40	AC03915	Intact

000005

Shipment for Case Complete? N	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 20032	Cooler Temperature Upon Receipt: 3°C
Analysis Key Below: Dr=Dry Weight	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact? yes	Shipment Iced? yes

PR provides prelim esults Requests for preliminary results will increase analytical costs
Send Copy to Cor. aboratory Analytical Services Support, 2000 Edmund Halley Dr Reston, VA 20191-3436 Phor 3/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112800-0004

F2V4.0

EPA Contract Laboratory Program
Organic Traffic Report

11/29/00 09:10

Case No. 28771
DAS No.
SDG No. EE03J

L

Date Shipped: 11/28/00
Carrier Name: Fed Ex
Airbill 4684286552
Shipped to:
Accura Analytical Laboratory
6017 Financial Drive
Norcross GA 30071
(770) 449-8800

Date Received/Received by: Bonnie J Hogue
Lab Contract No.. 68W01001 Unit Price: $590.00

Transfer To:
Date Received/Received By:
Contract No : Price:

Sampler (Signature) Mark Wagner 11/28/00

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No / Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE03J	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-120789 (Ice Only) (1)	X104	11/28/2000 13 00	MEE03J	Intact / AC03914
EE03K	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-120793 (Ice Only) (1)	X105	11/27/2000 11 40	MEE03K	Intact / AC03915
EE03L	Soil/Sediment / Mark Wagner	L/G	VOA (21)	120797 (Ice Only) (1)	X103	11/28/2000 15 30	MEE03L	Intact / AC03913

000004

Shipment for Case Complete? N	Sample(s) to be used for Laboratory QC: EE03L	Additional Sampler Signature(s):	Chain of Custody Seal Number 20032	Cooler Temperature Upon Receipt: 3°C
Analysis Key Below: VOA=CLP TCL Volatiles	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact? yes	Shipment Iced? yes

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to Contract Laboratory Analytical Services Support 2000 Edmund Halley Dr Reston VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112800-0003

"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."

David C. Fuller

David Fuller/Laboratory Manager

12/27/2000

Date

000003

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK02	98	98	92		
02	EE03L	135	56*	92		
03	EE03J	95	49*	77		
04	EE03K	104	46*	70		
05	EE03LMS	109	42*	74		
06	EE03LMSD	108	89	92		
07	EE03T	95	76	83		
08	EE047	84	55*	78		
09	VBLK03	104	108	106		
10	EE040	117	100	107		
11	EE041	119	87	104		
12	EE042	110	81	97		
13	EE045	110	83	103		
14	EE046	110	86	108		
15	EE043	120	72	110		
16	EE044	120	84	108		
17	EE03LDL	100	53*	98		
18	EE048	104	74	89		
19	VBLK04	106	102	106		
20	EE03JDL	107	87	100		
21	EE03KDL	108	43*	83		
22	VBLK05	96	98	100		
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2	= 4-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

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 #	SMC3 (DCE) #	OTHER	TOT OUT
01	VHBLK05	102	102	108		
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						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2	= 4-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

VOA ANALYSIS

All samples were analyzed on a Hewlett Packard GC/MS using a 30 meters long DB624 column. Samples were analyzed between 12/09/00 and 12/12/00. Samples "EE03I", "EE03J", and "EE03K" were analyzed at a secondary dilution because some of the target compounds exceeded the calibration range. MS/MSD were performed on sample "EE03L". Manual integrations were performed on several samples because the data system failed to perform proper integration on some of the compounds. All such manual edits are flagged on the chromatogram printouts

Sample EE03K was not transferred within the 48-hour holding time This sample was collected on 11/27/00 at 1140 and transferred to the VOA vial on 11/29/00 at 1400. See the Telephone Communication log at the end of the Sample Data Package or at the end of the Complete SDG File.

BNA ANALYSIS

All samples were analyzed on a Hewlett Packard GC/MS using a 30 meters long Zebron ZB-5 column Samples were extracted on 12/8/00 and 12/15/00 and analyzed between 12/13/00 and 12/18/00. Samples "EE03M", "EE03K", and "EE03L" were analyzed at a secondary dilution because some of the target compounds exceeded the calibration range. Samples "EE047" and "EE048" were re-extracted on 12/15/00 and reanalyzed on 12/16/00 since the surrogates were outside the acceptance limits for the initial analysis. MS/MSD were performed on sample "EE048". Please note that this sample was not originally selected for the MS/MSD analyses, however, due to low sample quantities the original sample was unable to be processed for the MS/MSD analyses. For additional information, please see the Telephone Communication Log at the end of the Sample Data Package or at the end of the Complete SDG File Manual integrations were performed on several samples because the data system failed to perform proper integration on some of the compounds. All such manual edits are flagged on the chromatogram printouts.

PEST/PCB ANALYSIS

Samples for pesticide/PCB analysis were extracted on 12/07/00 and analyzed on a dual ECD HP GC using 30 m long 0.53mm Restek columns (RTX-CLP and RTX-CLP2). Samples were analyzed between 12/10/00 and 12/14/00 MS/MSD were performed on sample "EE048" Please note that this sample was not originally selected for the MS/MSD analyses, however, due to low sample quantities the original sample was unable to be processed for the MS/MSD analyses. For additional information, please see the Telephone Communication Log at the end of the Sample Data Package or at the end of the Complete SDG File. Manual integrations were performed on several samples because the data system failed to perform proper integration on some of the compounds. All such manual edits are flagged on the chromatogram printouts.

000002

DEC 2 8 2000

SDG NARRATIVE

LAB NAME: Accura Analytical Laboratories	CONTRACT NO.: 68W01001
CASE: 28771	SDG: EE03J

SAMPLE RECEIPT:

The following samples were received by the laboratory and were assigned the laboratory IDs as indicated against them

EPA Sample No.	Lab Sample ID	Matrix	Date Received	Analysis
EE03J	AC03914	SOIL	11/29/00	VOA
EE03K	AC03915	SOIL	11/29/00	VOA
EE03L	AC03916	SOIL	11/29/00	VOA
EE03J	AC03954	SOIL	11/30/00	BNA, PEST
EE03K	AC03955	SOIL	11/30/00	BNA, PEST
EE03L	AC03956	SOIL	11/30/00	BNA, PEST
EE03M	AC03957	SOIL	11/30/00	BNA, PEST
EE03T	AC03958	SOIL	11/30/00	VOA, BNA, PEST
EE040	AC03959	SOIL	11/30/00	VOA, BNA, PEST
EE041	AC03960	SOIL	11/30/00	VOA, BNA, PEST
EE042	AC03961	SOIL	11/30/00	VOA, BNA, PEST
EE043	AC03962	SOIL	11/30/00	VOA, BNA, PEST
EE044	AC03963	SOIL	11/30/00	VOA, BNA, PEST
EE045	AC03964	SOIL	11/30/00	VOA, BNA, PEST
EE046	AC03965	SOIL	11/30/00	VOA, BNA, PEST
EE047	AC03966	SOIL	11/30/00	VOA, BNA, PEST
EE048	AC03967	SOIL	11/30/00	VOA, BNA, PEST

A holding blank for VOA analysis was set up with the first shipment and was assigned "VHBLK05" EPA No. and "AC03916" Lab ID

Sample EE03J arrived broken for the BNA/PEST analysis The sample was transferred into a new container for the BNA/PEST analysis; however, the percent solids procedure was completed on the Volatiles fraction. This was necessary since the sample remaining following aliquoting for extractions was very coarse and rocky The portion used from the Volatiles aliquot was taken after the volatiles analysis was completed. For additional information, please see the attached Telephone Communication Log and the attached email at the end of the Sample Data Package or at the end of the Complete SDG File.

000001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group. EE03J CERCLIS No: ILD000034371

Case No 28771 Site Name/Location: Rockford Sand + Gravel

Contractor or EPA Lab Accura Data User: IEPA

No. of Samples. 14 Date Sampled or Date Received: 12-28-00

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 14 No of samples received 14

Received by Ema M Dixon / ESAT Date 12-28-00

Received by LSSS Ema M Dixon / ESAT Date: 12-28-00

Review started 1-24-01 Reviewer Signature: [signature]

Total time spent on review ____ Date review completed: Jan. 31, 2001

Copied by Ema M. Dixon / ESAT Date: 1-31-01

Mailed to user by Ema M. Dixon / ESAT Date. 1-31-01

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 ____

TABLE 4

(Multi-Media, Multi-concentration Low Concentration Water)

VOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Difluorobenzene	Chlorobenzene-d_5	1,4-Dichlorobenzene-d_4
Chloromethane	Toluene	Bromoform
Bromomethane	1,1,1-Trichloroethane	1,2-Dibromo-3-chloropropane*
Vinyl chloride	Carbon tetrachloride	1,2-Dichlorobenzene*
Chloroethane	Bromodichloromethane	1,3-Dichlorobenzene*
Methylene chloride	1,2-Dichloropropane	1,4-Dichlorobenzene*
Acetone	trans-1,3-Dichloropropene	
Carbon disulfide	Trichloroethene	
1,1-Dichloroethene	Dibromochloromethane	
1,1-Dichloroethane	1,1,2-Trichloroethane	
2-Butanone	Benzene	
Chloroform	cis-1,3-Dichloropropene	
1,2-Dichloroethane	Chlorobenzene	
4-Bromofluorobenzene(surr)	Ethylbenzene	
2-Butanone	Styrene	
Bromomethane*	Xylenes(total)	
cis-1,2-Dichloroethene**	4-Methyl-2-pentanone	
trans-1,2-Dichloroethene**	2-Hexanone	
	Tetrachloroethane	
	1,1,2,2-Tetrachloroethane	
	1,2-Dibromoethane*	

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Dichlorobenzene-d_4	Naphthalene-d_8	Acenaphthene-d_{10}	Phenanthrene-d_{10}	Chrysene-d_{12}	Perylene-d_{12}
Phenol	Nitrobenzene	Hexachlorocyclopentadiene	4,6-Dinitro-2-methylphenol	Pyrene	Di-n-octyl phthalate
bis(2-chloroethyl)ether	Isophorone	2,4,6-Trichlorophenol	N-nitroso-di-phenylamine	butylbenzyl phthalate	Benzo(b)fluoranthene
2-Chlorophenol	2-Nitrophenol	2,4,5-Trichlorophenol	Carbazole	3,3'-Dichlorobenzidine	Benzo(k)fluoranthene
1,3-Dichlorobenzene	2,4-Dimethylphenol	2-Chloronaphthalene	4-Bromophenyl phenyl ether	Benzo(a)anthracene	Benzo(a)pyrene
1,4-Dichlorobenzene	Naphthalene	2-Nitroaniline	Hexachlorobenzene	bis(2-Ethylhexyl)phthalate	Indeno(1,2,3-cd)pyrene
2,2'-Oxybis-(1-chloropropane)	bis(2-Chloroethoxy)methane	Dimethylphthalate	Pentachlorophenol	Chrysene	Dibenzo(a,h)anthracene
1,2-Dichlorobenzene	2,4-Dichlorophenol	Acenaphthylene	Phenanthrene	Terphenyl d_{14}(surr)	Benzo(g,h,i)perylene
2-Methylphenol	1,2,4-Trichlorobenzene	3-Nitroaniline	Anthracene		
1,2-Dichlorobenzene-d_4(surr)	4-Chloroaniline	Acenaphthene	Di-n-butyl phthalate		
4-Methylphenol	Hexachlorobutadiene	2,4-Dinitrophenol	Fluoranthene		
N-nitroso-di-n-propylamine	4-Chloro-3-methylphenol	4-Nitrophenol			
Hexachloroethane	2-Methylnaphthalene	Dibenzofuran			
2-Fluorophenol(surr)	Nitrobenzene-d_5(surr)	2,4-Dinitrotoluene			
Phenol-d_5(surr)		2,6-Dinitrotoluene			
2-Chlorobenzene-d_4(surr)		Diethyl phthalate			
		4-Chlorophenyl phenyl ether			
		Fluorene			
		4-Nitroaniline			
		2-Fluorobiphenyl(surr)			
		2,4,6-Tribromophenol(surr)			

(Surr) - surrogate

* Compounds not on Multi-Media, Multi-Concentration

** Compounds on Multi-Media, Multi-Conc. TCL as total 1,2-DCE

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as in the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

CASE\SAS#: 28771
COLUMN: RTX-CLP2

LABORATORY: ACCURA Analyt. LAB
SITE NAME: ROCKFORD SAND & Gravel

Instrument# INSTRUMENT		Initial Cal.			Contin Cal			Contin Cal			Contin Cal			Contin Cal.		
Date/Time:		12/9/00-1634			12/10/00-0403			12/11/00-0005			12/14/00-1248					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Aroclor 1016																
Aroclor 1221																
Aroclor 1232																
Aroclor 1242																
Aroclor 1248																
Aroclor 1254																
Aroclor 1260																

Affected samples

PBLK01	EE045	EE035	
EE037	EE046-48	EE03K	
EE040-44	EE048MS	EE03L	
	EE048MSD	EE03M	

Reviewer's Init/Date [illegible]
1-25-01

* These flags should be applied to the analytes on the sample data sheets.
# Minimum Relative Response Factor

PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 28771
COLUMN: RTX CLP

LABORATORY: ACCURA Analyt. LAB
SITE NAME: ROCKFORD SAND & GRAVEL

Instrument# INSTRUMEN		Initial Cal.			Contin Cal			Contin Cal			Contin Cal.			Contin Cal		
Date/Time:		12/9/00 - 1634			12/10/00 - 0483			12/11/00 - 0005			12/14/00 - 1218					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples

PBLK01	EE045	EE03J
EE03T	EE046-49	EE03K
EE040-44	EE048MS	EE03L
	EE048MSD	EE03M

Reviewer's Init/Date [illegible]
1-25-01

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CASE\SAS # 28771
COLUMN

LABORATORY: Accura Analy
SITE NAME. Rockford Sand & Grav.

INSTRUMENT SVOA#7		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin		
DATE/TIME		12-6-00/1329			12-13-00/1130			12/14/00-0953			12/16/00-1110			12/18/00-0910		
Semivolatile Compound	RF	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q
2,4-Dinitrophenol	0 01															
4-Nitrophenol	0 01															
Dibenzofuran	0 80															
2,4-Dinitrotoluene	0 20															
Diethylphthalate	0 01															
Fluorene	0 90															
4-Chlorophenyl-phenyl ether	0 40															
4-Nitroaniline	0 01															
4,6-Dinitro-2-methylphenol	0 01															
N-Nitrosodiphenylamine	0 01															
4-Bromophenyl-phenylether	0 10															
Hexachlorobenzene	0 10															
Atrazine	0 01															
Pentachlorophenol	0 05															
Phenanthrene	0 70															
Anthracene	0 70															
Carbazole	0 01															
Di-n-butylphthalate	0 01															
Fluoranthene	0 60															
Pyrene	0 60															
Butylbenzylphthalate	0 01															
3,3'-Dichlorobenzidine	0 01	0.246						0.276	0.278	J	0.284	31.5	J	0.249		
Benzo(a)anthracene	0 80															
Chrysene	0 70															
bis,2-Ethylhexyl)phthalate	0 01															
Di-n-octylphthalate	0 01															
Benzo(b)fluoranthene	0 70															
Benzo(k)fluoranthene	0 70															
Benzo(a)pyrene	0 70															
Indeno(1 2 3-cd)pyrene	0 50															
Dibenzo(a h)anthracene	0 40															
Benzo(g h,i)perylene	0 50															

Nitrobenzene-d5	0 20															
2-Fluorobiphenyl	0 70															
Terphenyl-d14	0 50															
Phenol-5	0 80															
2-Fluorophenol	0 60															
2 4 6-Tribromophenol	0 01															
2-Chlorophenol-d4	0 80															
1 2-Dichlorobenzene-d4	0 40															

Initals & Date 1-25-01

CASE\SAS # 28771
COLUMN

LABORATORY: ACCURA Analyt.
SITE NAME: Rockford Sand & Gr.

INSTRUMENT SVOAF1		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
DATE/TIME		12-6-00/1324			12-13-00/1130			12/14/00-0455			12/14/00-1110			12/18/00-04		
Semivolatile Compound	RF	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q
Benzaldehyde	0 01															
Phenol	0 80															
bis-(2-Chloroethyl) ether	0 70															
2-Chlorophenol	0 80															
2-Methylphenol	0 70															
2,2'-oxybis(1-Chloropropane)	0.01	1.924						2.698	40	J	2.552	32.6	J	2.548	32.4	
Acetophenone	0 01															
4-Methylphenol	0 60															
N-Nitroso-di-n-propylamine	0 50															
Hexachloroethane	0 30															
Nitrobenzene	0 20															
Isophorone	0 40															
2-Nitrophenol	0 10															
2 4-Dimethylphenol	0 20															
bis(2-Chloroethoxy)methane	0 30															
2 4-Dichlorophenol	0 20															
Naphthalene	0 70															
4-Chloroaniline	0 01															
Hexachlorobutadiene	0 01															
Caprolactam	0 01															
4-Chloro-3-methylphenol	0 20															
2-Methylnaphthalene	0 40															
Hexachlorocyclopentadiene	0 01															
2 4 6-Trichlorophenol	0 20															
2 4 5-Trichlorophenol	0 20															
1 1'-Biphenyl	0 01															
2-Chloronaphthalene	0 80															
2-Nitroaniline	0 01															
Dimethylphthalate	0 01															
2 6-Dinitrotoluene	0 20															
Acenaphthylene	0 90															
3-Nitroaniline	0 01															
Acenaphthene	0 90															

AFFECTED SAMPLES

SBLK01	EE046-48	SBLK03	EE03KDL
EE03T	EE048MS	EE047RE	EE03KDL
EE040-45	EE048MSD	EE048RE	EE03L
		EE03MDL	EE03LDL
		EE03K	
		EE03J	
		EE03M	

Initals & Date 1-25-00

VOLATILE TCL COMPOUNDS

PAGE 2 0F 2

CASE\SAS # 28771
COLUMN DB-624

LABORATORY: ACCURA
SITE NAME: ROCKFORD SAND & GV.

INSTRUMENT VOA-B		Initial Cal.			Contin Cal.			Contin Cal			Contin Cal		
DATE/TIME		12/9/00-0101			12/9/00-1347			12/10/00-1634			12/11/00-2227		
Volatile Compound	RF	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q
2-Hexanone	0 01												
Dibromochloromethane	0 10												
1,2-Dibromoethane	0 01												
Chlorobenzene	0 50												
Ethylbenzene	0.10												
Xylenes (total)	0 30												
Styrene	0 30												
Bromoform	0 10												
Isopropylbenzene	0 01												
1,1,2,2-Tetrachloroethane	0 30												
1,3-Dichlorobenzene	0 60												
1,4-Dichlorobenzene	0 50												
1,2-Dichlorobenzene	0 40												
1,2-Dibromo-3-chloropropane	0 01												
1 2 4-Trichlorobenzene	0 20												
Bromofluorobenzene	0 20												
Toluene-d8	0 01												
1,2-Dichloroethane-d4	0 01												

Initals & Date WJW 1/29/01

CASE\SAS # 28771
COLUMN DB-624
Heated Purge? ____

LABORATORY ACCURA ANALY. LAB.
SITE NAME. ROCKFORD SANDS GRAN

INSTRUMENT VOA-B		Initial Cal			Contin Cal			Contin Cal			Contin Cal		
DATE/TIME		12/9/00-0101			12/9/00-1347			12/11/00-1634			12/11/00-2227		
Volatile Compound	RF	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q	RRF	%RSD	Q
Dichlorodifluoromethane	0.01												
Chloromethane	0.01												
Vinyl Chloride	0.10												
Bromomethane	0.10	0.345	40.0	J	0.336	~~0.336~~		0.336			0.336		
Chloroethane	0.01	0.251	43.7	J	0.247	~~0.2~~		0.247			0.247		
Trichlorofluoromethane	0.10												
1,1-Dichloroethene	0.10												
1,1,2-Trichloro-1,2,2-trifluoroethane	0.01												
Acetone	0.01	0.790	34.3	J	0.763			0.763			0.763		
Carbon Disulfide	0.01												
Methyl Acetate	0.01												
Methylene Chloride	0.01												
trans-1,2-Dichloroethene	0.01												
tert-Butyl Methyl Ether	0.01												
1,1-Dichloroethane	0.20												
cis-1,2-Dichloroethene	0.01												
2-Butanone	0.01												
Chloroform	0.20												
1,1,1-Trichloroethane	0.10												
Cyclohexane	0.01												
Carbon Tetrachloride	0.10												
Benzene	0.50												
1,2-Dichloroethane	0.10												
Trichloroethene	0.30												
Methylcyclohexane	0.01												
1,2-Dichloropropane	0.01												
Bromodichloromethane	0.20												
cis-1,3-Dichloropropene	0.20												
4-Methyl-2-pentanone	0.01												
Toluene	0.40												
trans-1,3-Dichloropropene	0.10												
1,1,2-Trichloroethane	0.10												
Tetrachloroethene	0.20												

AFFECTED SAMPLES			
VBLK02	VBLK03	VBLK04	VBLK05
EE036	EE040	EE03JDL	VHBLK05
EE035	EE041	EE03KDL	
EE03K	EE042, 45, 46		
EE036MS/MSD	EE043, 44		
EE03T	EE034DL		
EE047	EE048		

Initals & Date 1-25/01

GC baseline for the Pesticide analysis indicated acceptable performance.

12. ADDITIONAL INFORMATION

Samples EE03J, EE03L, and EE048 reported at least one analyte that exceeded the instrument's calibration range in the volatile fraction. Samples EE03L and EE03M reported at least 3 analytes that exceeded the instrument's calibration range in the semivolatile fraction.

The results for the diluted samples of those noted above should be used for the analytes results. However, sample EE048 in the volatile fraction was not reanalyzed.

Reviewed by: W. Ira Wilson__Lockheed Martin/ESAT

Date:__January 31, 2001__

limits and therefore, results are acceptable.

7. FIELD BLANK AND FIELD DUPLICATE

There were no samples identified as duplicates, field blanks or trip blanks.

8. INTERNAL STANDARDS

The Internal standard retention times and area counts for the volatile sample EE03J reported IS2 and IS3 outside QC limits. Samples EE03L, EE03LMS, EE03KDL reported IS3 outside of QC limits. Therefore, positive results are estimated (J); non-detects as (UJ).

The internal standard retention times and area counts for the semivolatile samples were within the QC limits and the results are acceptable.

Please refer to Table 4 for analytes associated with each Internal Standard fo0r the volatile analysis..

9. COMPOUND IDENTIFICATION

Target compounds and TICs were correctly identified by "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated and the CRQLs adjusted to reflect all sample dilutions; therefore, the results are acceptable.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

Reviewed by: W. Ira Wilson__Lockheed Martin/ESAT

Date:__January 31, 2001__

surrogate S4 and S5 outside of QC limits. S4 in EE047 was less than 10%. Therefore, positive results are estimated (J) and non-detected as (UJ). However, for sample EE047, non-detects are qualified as unusable (R) because the result was less than 10%. For samples EE03J, EE03KDL, EE03L, EE03LDL, EE03MDL and EE03K; all reported outliers but the dilution factor was greater than 5. Therefore, no qualification is applied. Please see Form II SV-2 for outliers.

In the Pest/PCB analysis, the surrogate recoveries of (TCX) = Tetrachloro-m-xylene, column #1 and #2 were reported above the QC limits for at least one of the surrogate on one of the columns in samples EE045, EE047, EE048MSD. DCB #1 and #2 were reported above the QC limits on at least one of the columns in samples PKLK01, EE03J, EE03T, EE03M, EE045 EE048MSD, EE048MS, EE03K, and EE03L. Therefore, positive results are estimated (J) non-detects are not qualified. Sample EE03L, EE03LDL and EE03K reported atleast one surrogate below the QC limits. Sample EE03L reported a surrogate below 10%. Therefore, positive results are estimated (J); non-detects (UJ. For sample EE03L, non-detects are qualified as unusable (R). The results for the other soil samples met the required QC limits and therefore, the results are acceptable.

6. MATRIX SPIKE/MSD SAMPLES

Sample EE03L was used for the volatile matrix spike/matrix spike duplicate analysis. Sample EE048 was used for the semivolatile and pesticide/PCB matrix spike/martix spike duplicate (MS/MSD) analysis.

The MS% REC. for Trichloroethene and Chloroethene was reported below the QC limits. The MSD% REC. was reported below the QC limits for Trichloroethene. The RPD % REC. was outside of QC limits for Trichloroethene, Toluene and Chlorobenzene. Therefore, in the unspiked sample, positive results are estimated (J); non-detects as (UJ).

The MS% REC., MSD% REC. and the %RPD for the semivolatile and pesticide/PCB soil samples reported the recoveries within the QC

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix Spike - EPA Sample No.: EE03L 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	53	0.0	66	125	59-172
Trichloroethene	53	16	35	36*	62-137
Benzene	53	0.0	64	121	66-142
Toluene	53	18	69	96	59-139
Chlorobenzene	53	6	37	58*	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	37	47	127	2	22	59-172
Trichloroethene	37	38	59*	48*	24	62-137
Benzene	37	39	105	14	21	66-142
Toluene	37	45	73	27*	21	59-139
Chlorobenzene	37	37	84	37*	21	60-133

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

* Values outside of QC limits

RPD: 3 out of 5 outside limits
Spike Recovery: 3 out of 10 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Lab File ID: B24973 Lab Sample ID: QVS1209002

Date Analyzed: 12/09/00 Time Analyzed: 0800

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA-B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE03L	AC03913	B24974	0833
02	EE03J	AC03914	B24975	0905
03	EE03K	AC03915	B24976	0938
04	EE03LMS	AC03913MS	B24977	1010
05	EE03LMSD	AC03913MSD	B24978	1042
06	EE03T	AC03958	B24979	1123
07	EE047	AC03966	B24980	1156
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COMMENTS:

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Lab File ID: B24985 Lab Sample ID: QVS1209001

Date Analyzed: 12/09/00 Time Analyzed: 1431

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA-B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE040	AC03959	B24986	1519
02	EE041	AC03960	B24987	1551
03	EE042	AC03961	B24988	1624
04	EE045	AC03964	B24989	1656
05	EE046	AC03965	B24990	1729
06	EE043	AC03962	B24991	1801
07	EE044	AC03963	B24992	1834
08	EE03LDL	AC03913DL	B24993	1906
09	EE048	AC03967	B24998	2148
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COMMENTS:

FORM IV VOA

OLM04.2

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK04

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Lab File ID: B25008 Lab Sample ID: QVS1210001

Date Analyzed: 12/10/00 Time Analyzed: 1810

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA-B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE03JDL	AC03914DL	B25016	2253
02	EE03KDL	AC03915DL	B25017	2326
03				
04				
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COMMENTS

FORM IV VOA OLM04.2

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK05

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Lab File ID: B25022 Lab Sample ID: QVS1211001

Date Analyzed: 12/11/00 Time Analyzed: 2323

GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA-B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK05	AC03916	B25036	0721
02				
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COMMENTS:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X104

EE03J

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03914

Sample wt/vol: 4.3(g/mL) G Lab File ID: B24975

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	390	E
75-15-0	Carbon Disulfide	21	
79-20-9	Methyl Acetate	38	
75-09-2	Methylene Chloride	8	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl 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	46	
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	24	
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	14	
107-06-2	1,2-Dichloroethane	11	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

X104

EE03J

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03914

Sample wt/vol: 4.3(g/mL) G Lab File ID: B24975

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) 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	41	
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	37	
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	4	J
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	120	
100-41-4	Ethylbenzene	200	
1330-20-7	Xylene (total)	360	
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	16	
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	J
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

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EPA SAMPLE NO.

X104

EE03J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03914

Sample wt/vol: 4.3 (g/mL) G Lab File ID: B24975

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7214495	CIS-3,5-DIMETHYLCYCLOHEXANON	13.70	120	NJ
2. 111842	NONANE	13.93	390	NJ
3. 4923788	CYCLOHEXANE, 1-ETHYL-2-METHY	14.34	420	NJ
4. 6221552	BICYCLO[3.2.1]OCTANE	14.73	190	NJ
5. 15869940	OCTANE, 3,6-DIMETHYL-	14.80	280	NJ
6. 1678928	CYCLOHEXANE, PROPYL-	14.91	370	NJ
7. 17615917	UNDECANE, 5,6-DIMETHYL-	15.33	250	NJ
8. 17301949	NONANE, 4-METHYL-	15.47	310	NJ
9. 62108230	DECANE, 2,5,6-TRIMETHYL-	15.51	640	NJ
10. 50871039	1-DECENE, 3,4-DIMETHYL-	15.68	670	NJ
11. 611143	BENZENE, 1-ETHYL-2-METHYL-	16.05	250	NJ
12. 4291796	CYCLOHEXANE, 1-METHYL-2-PROP	16.17	340	NJ
13. 124185	DECANE	16.34	320	NJ
14. 526738	BENZENE, 1,2,3-TRIMETHYL-	16.87	1100	NJ
15. 13151343	DECANE, 3-METHYL-	17.01	220	NJ
16. 17312571	DODECANE, 3-METHYL-	17.14	350	NJ
17. 1678939	CYCLOHEXANE, BUTYL-	17.32	270	NJ
18. 95363	1,2,4-TRIMETHYLBENZENE	17.62	510	NJ
19. 2847725	DECANE, 4-METHYL-	17.69	300	NJ
20. 6975980	DECANE, 2-METHYL-	17.76	430	NJ
21. 13151343	DECANE, 3-METHYL-	17.92	310	NJ
22. 91178	NAPHTHALENE, DECAHYDRO-	18.07	220	NJ
23. 527844	BENZENE, 1-METHYL-2-(1-METHY	18.68	140	NJ
24. 535773	BENZENE, 1-METHYL-3-(1-METHY	18.87	400	NJ
25. 27133933	2,3-DIHYDRO-1-METHYLINDENE	19.01	230	NJ
26. 1195795	BICYCLO[2.2.1]HEPTAN-2-ONE,	19.49	250	NJ
27. 527537	BENZENE, 1,2,3,5-TETRAMETHYL	19.66	260	NJ
28. 2039896	BENZENE, 2-ETHENYL-1,4-DIMET	20.40	300	NJ
29. 17057828	1H-INDENE, 2,3-DIHYDRO-1,2-D	22.61	170	NJ
30. 1129299	BENZENE, 1-(1-METHYLETHENYL)	23.27	130	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

EE03JDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03914DL

Sample wt/vol: 0.6(g/mL) G Lab File ID: B25016

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	89	U
74-87-3	Chloromethane	89	U
75-01-4	Vinyl Chloride	89	U
74-83-9	Bromomethane	89	U
75-00-3	Chloroethane	89	U
75-69-4	Trichlorofluoromethane	89	U
75-35-4	1,1-Dichloroethene	89	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	89	U
67-64-1	Acetone	440	D
75-15-0	Carbon Disulfide	89	U
79-20-9	Methyl Acetate	89	U
75-09-2	Methylene Chloride	140	D
156-60-5	trans-1,2-Dichloroethene	89	U
1634-04-4	Methyl-tert-Butyl Ether	89	U
75-34-3	1,1-Dichloroethane	89	U
156-59-2	cis-1,2-Dichloroethene	89	U
78-93-3	2-Butanone	38	DJ
67-66-3	Chloroform	89	U
71-55-6	1,1,1-Trichloroethane	89	U
110-82-7	Cyclohexane	89	U
56-23-5	Carbon Tetrachloride	89	U
[illegible]	Benzene	89	U
107-06-2	1,2-Dichloroethane	89	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03JDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03914DL

Sample wt/vol: 0.6(g/mL) G Lab File ID: B25016

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	89	U
108-87-2	Methylcyclohexane	89	U
78-87-5	1,2-Dichloropropane	89	U
75-27-4	Bromodichloromethane	89	U
10061-01-5	cis-1,3-Dichloropropene	89	U
108-10-1	4-Methyl-2-Pentanone	89	U
108-88-3	Toluene	89	U
10061-02-6	trans-1,3-Dichloropropene	89	U
79-00-5	1,1,2-Trichloroethane	89	U
127-18-4	Tetrachloroethene	89	U
591-78-6	2-Hexanone	89	U
124-48-1	Dibromochloromethane	89	U
106-93-4	1,2-Dibromoethane	89	U
108-90-7	Chlorobenzene	160	D
100-41-4	Ethylbenzene	260	D
1330-20-7	Xylene (total)	550	D
100-42-5	Styrene	89	U
75-25-2	Bromoform	89	U
98-82-8	Isopropylbenzene	89	U
79-34-5	1,1,2,2-Tetrachloroethane	89	U
541-73-1	1,3-Dichlorobenzene	89	U
106-46-7	1,4-Dichlorobenzene	29	DJ
95-50-1	1,2-Dichlorobenzene	89	U
96-12-8	1,2-Dibromo-3-chloropropane	89	U
120-82-1	1,2,4-Trichlorobenzene	89	U

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EPA SAMPLE NO.

X104

EE03JDL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03914DL

Sample wt/vol: 0.6 (g/mL) G Lab File ID: B25016

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (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/Kg

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

EPA SAMPLE NO.
X105

EE03K

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03915

Sample wt/vol: 5.5(g/mL) G Lab File ID: B24976

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	170	
75-15-0	Carbon Disulfide	4	J
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	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	22	
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.

X105

EE03K

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03915

Sample wt/vol: 5.5(g/mL) G Lab File ID: B24976

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X105

EE03K

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03915

Sample wt/vol: 5.5 (g/mL) G Lab File ID: B24976

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (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/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

EE03KDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03915DL

Sample wt/vol: 2.0(g/mL) G Lab File ID: B25017

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	430	D
75-15-0	Carbon Disulfide	17	DJ
79-20-9	Methyl Acetate	32	D
75-09-2	Methylene Chloride	370	D
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl-tert-Butyl Ether	25	U
75-34-3	1,1-Dichloroethane	25	U
156-59-2	cis-1,2-Dichloroethene	25	U
[illegible]	2-Butanone	61	D
[illegible]	Chloroform	25	U
[illegible]	1,1,1 Trichloroethane	25	U
[illegible]	Cyclohexane	25	U
[illegible]	Carbon Tetrachloride	25	U
[illegible]	Benzene	8	DJ
[illegible]	1,2 Dichloroethane	25	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

.X105

EE03KDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03915DL

Sample wt/vol: 2.0(g/mL) G Lab File ID: B25017

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	10	DJ
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X105

EE03KDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03915DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: B25017

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (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/Kg

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

EPA SAMPLE NO.
X103

EE03L

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913

Sample wt/vol: 4.8(g/mL) G Lab File ID: B24974

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	300	E
75-15-0	Carbon Disulfide	22	
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	5	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	69	
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	29	
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	16	
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X103
EE03L

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913

Sample wt/vol: 4.8(g/mL) G Lab File ID: B24974

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	19	
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	18	
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	14	
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	6	J
100-41-4	Ethylbenzene	160	
1330-20-7	Xylene (total)	140	
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	23	
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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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X103

EE03L

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913

Sample wt/vol: 4.8 (g/mL) G Lab File ID: B24974

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 28 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 589811	HEPTANE, 3-METHYL-	10.38	11	NJ
2. 565800	3-PENTANONE, 2,4-DIMETHYL-	12.00	38	NJ
3. 3404613	1-HEXENE, 3-METHYL-	12.22	24	NJ
4. 1678917	CYCLOHEXANE, ETHYL-	12.32	27	NJ
5. 3073663	CYCLOHEXANE, 1,1,3-TRIMETHYL	12.42	23	NJ
6. 2216344	OCTANE, 4-METHYL-	13.00	23	NJ
7. 95476	BENZENE, 1,2-DIMETHYL-	14.46	63	NJ
8. 62108332	3-OCTYNE, 5-METHYL-	14.72	25	NJ
9. 5911046	NONANE, 3-METHYL-	14.80	30	NJ
10. 1678928	CYCLOHEXANE, PROPYL-	14.90	41	NJ
11. 0	MENTH-1(8)-ENE	15.29	49	NJ
12. 22058715	METHYLAMINE, N-(1-METHYLHEXY	15.68	60	NJ
13. 103651	BENZENE, PROPYL-	15.88	32	NJ
14. 611143	BENZENE, 1-ETHYL-2-METHYL-	16.05	76	NJ
15. 95363	1,2,4-TRIMETHYLBENZENE	16.23	120	NJ
16. 124185	DECANE	16.33	80	NJ
17. 611143	BENZENE, 1-ETHYL-2-METHYL-	16.56	55	NJ
18. 526738	BENZENE, 1,2,3-TRIMETHYL-	16.87	98	NJ
19. 95363	1,2,4-TRIMETHYLBENZENE	17.62	58	NJ
20. 6975980	DECANE, 2-METHYL-	17.75	20	NJ
21. 13151343	DECANE, 3-METHYL-	17.92	18	NJ
22. 1074175	BENZENE, 1-METHYL-2-PROPYL-	18.07	47	NJ
23. 1758889	BENZENE, 2-ETHYL-1,4-DIMETHY	18.20	35	NJ
24. 1120214	UNDECANE	18.51	57	NJ
25. 99876	BENZENE, 1-METHYL-4-(1-METHY	18.86	32	NJ
26. 31081182	NONANE, 3-METHYL-5-PROPYL-	19.11	22	NJ
27. 1195795	BICYCLO[2.2.1]HEPTAN-2-ONE,	19.49	48	NJ
28. 464482	BICYCLO[2.2.1]HEPTAN-2-ONE,	20.87	42	NJ
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X103

EE03LDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913DL

Sample wt/vol: 2.8(g/mL) G Lab File ID: B24993

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18	U
74-87-3	Chloromethane	18	U
75-01-4	Vinyl Chloride	18	U
74-83-9	Bromomethane	18	U
75-00-3	Chloroethane	18	U
75-69-4	Trichlorofluoromethane	18	U
75-35-4	1,1-Dichloroethene	18	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18	U
67-64-1	Acetone	330	D
75-15-0	Carbon Disulfide	11	DJ
79-20-9	Methyl Acetate	7	DJ
75-09-2	Methylene Chloride	70	D
156-60-5	trans-1,2-Dichloroethene	18	U
1634-04-4	Methyl-tert-Butyl Ether	18	U
75-34-3	1,1-Dichloroethane	18	U
156-59-2	cis-1,2-Dichloroethene	18	U
78-93-3	2-Butanone	52	D
67-66-3	Chloroform	18	U
71-55-6	1,1,1-Trichloroethane	18	U
110-82-7	Cyclohexane	9	DJ
56-23-5	Carbon Tetrachloride	18	U
71-43-2	Benzene	18	U
107-06-2	1,2-Dichloroethane	18	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
x103

EE03LDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913DL

Sample wt/vol: 2.8(g/mL) G Lab File ID: B24993

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	18	U
108-87-2	Methylcyclohexane	8	DJ
78-87-5	1,2-Dichloropropane	18	U
75-27-4	Bromodichloromethane	18	U
10061-01-5	cis-1,3-Dichloropropene	18	U
108-10-1	4-Methyl-2-Pentanone	18	U
108-88-3	Toluene	11	DJ
10061-02-6	trans-1,3-Dichloropropene	18	U
79-00-5	1,1,2-Trichloroethane	18	U
127-18-4	Tetrachloroethene	18	U
591-78-6	2-Hexanone	18	U
124-48-1	Dibromochloromethane	18	U
106-93-4	1,2-Dibromoethane	18	U
108-90-7	Chlorobenzene	18	U
100-41-4	Ethylbenzene	73	D
1330-20-7	Xylene (total)	61	D
100-42-5	Styrene	18	U
75-25-2	Bromoform	18	U
98-82-8	Isopropylbenzene	10	DJ
79-34-5	1,1,2,2-Tetrachloroethane	18	U
541-73-1	1,3-Dichlorobenzene	18	U
106-46-7	1,4-Dichlorobenzene	18	U
95-50-1	1,2-Dichlorobenzene	18	U
96-12-8	1,2-Dibromo-3-chloropropane	18	U
120-82-1	1,2,4-Trichlorobenzene	18	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X103

EE03LDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913DL

Sample wt/vol: 2.8 (g/mL) G Lab File ID: B24993

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (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/Kg

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

EPA SAMPLE NO.
X103

EE03LMS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913MS

Sample wt/vol: 4.7(g/mL) G Lab File ID: B24977

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	66	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	320	E
75-15-0	Carbon Disulfide	21	
79-20-9	Methyl Acetate	12	
75-09-2	Methylene Chloride	5	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
[illegible]	cis-1,2-Dichloroethene	11	U
[illegible]	2-Butanone	68	
[illegible]	Chloroform	11	U
[illegible]	1,1,1-Trichloroethane	11	U
[illegible]	Cyclohexane	33	
[illegible]	Carbon Tetrachloride	11	U
[illegible]	Benzene	64	
[illegible]	1,2-Dichloroethane	11	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X103

EE03LMS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913MS

Sample wt/vol: 4.7(g/mL) G Lab File ID: B24977

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	35	
108-87-2	Methylcyclohexane	21	
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	69	
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	10	J
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	37	
100-41-4	Ethylbenzene	160	
1330-20-7	Xylene (total)	130	
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	21	
[illegible]	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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X1R3

EE03LMSD

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913MSD

Sample wt/vol: 6.7(g/mL) G Lab File ID: B24978

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	47	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	39	
75-15-0	Carbon Disulfide	3	J
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	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	7	J
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	3	J
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	39	
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X10-3

EE03LMSD

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03913MSD

Sample wt/vol: 6.7(g/mL) G Lab File ID: B24978

Level: (low/med) LOW Date Received: 11/29/00

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	38	
108-87-2	Methylcyclohexane	4	J
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	45	
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	37	
100-41-4	Ethylbenzene	16	
1330-20-7	Xylene (total)	13	
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.
X107

EE03T

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03958

Sample wt/vol: 6.5(g/mL) G Lab File ID: B24979

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 8 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	19	
75-15-0	Carbon Disulfide	5	J
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	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	3	J
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	3	J
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.

X107

EE03T

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03958

Sample wt/vol: 6.5(g/mL) G Lab File ID: B24979

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 8 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	6	J
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	5	J
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)	5	J
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.
X107

EE03T

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03958

Sample wt/vol: 6.5 (g/mL) G Lab File ID: B24979

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 8 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	109660	PENTANE	1.94	9	NJ
2.	110543	HEXANE	4.25	13	NJ
3.	142825	HEPTANE	7.92	5	NJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

EE040

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03959

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24986

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 15 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	16	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	26	
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl 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.

x203

EE040

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03959

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24986

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 15 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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.
X203
EE040

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03959

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24986

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 15 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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. 124389	CARBON DIOXIDE	1.04	770	NJ
2. 674760	2-PENTENE, 4-METHYL-, (E)-	4.65	10	NJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X204

EE041

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03960

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24987

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 25 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	25	
75-15-0	Carbon Disulfide	4	J
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	9	J
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

EE041

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03960

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24987

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 25 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	7	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X204

EE041

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03960

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24987

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 25 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (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/Kg

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

EPA SAMPLE NO.

X205

EE042

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03961

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24988

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 29 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	23	
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	5	J
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-Butyl 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.
X205

EE042

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03961

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24988

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 29 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X205
EE042

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03961

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24988

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 29 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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. 124389	CARBON DIOXIDE	1.04	1200	NJ
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X206

EE043

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03962

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24991

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 51 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	100	
75-15-0	Carbon Disulfide	15	J
79-20-9	Methyl Acetate	14	J
75-09-2	Methylene Chloride	27	
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl-tert-Butyl Ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-Butanone	9	J
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	20	U
56-23-5	Carbon Tetrachloride	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T206

EE043

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03962

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24991

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 51 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X206

EE043

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03962

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24991

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 51 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (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/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X207

EE044

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03963

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24992

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 80 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	50	U
74-87-3	Chloromethane	50	U
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
67-64-1	Acetone	130	
75-15-0	Carbon Disulfide	16	J
79-20-9	Methyl Acetate	50	U
75-09-2	Methylene Chloride	40	J
156-60-5	trans-1,2-Dichloroethene	50	U
1634-04-4	Methyl-tert-Butyl Ether	50	U
75-34-3	1,1-Dichloroethane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
78-93-3	2-Butanone	20	J
67-66-3	Chloroform	50	U
71-55-6	1,1,1-Trichloroethane	50	U
110-82-7	Cyclohexane	24	J
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	42	J
107-06-2	1,2-Dichloroethane	50	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X207

EE044

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03963

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24992

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 80 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	50	U
108-87-2	Methylcyclohexane	36	J
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	54	
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
127-18-4	Tetrachloroethene	50	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	16	J
1330-20-7	Xylene (total)	30	J
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U

1F

EPA SAMPLE NO.

X207

EE044

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03963

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24992

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 80 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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. 124389	CARBON DIOXIDE	1.04	2100	NJ
2. 110543	HEXANE	4.26	78	NJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

EE045

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03964

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24989

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 16 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	17	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	9	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	9	J
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	6	J
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.

X201

EE045

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03964

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24989

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 16 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	130	
108-87-2	Methylcyclohexane	6	J
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	7	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	64	
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)	5	J
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

EPA SAMPLE NO.

X201

EE045

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03964

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24989

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 16 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (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/Kg

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

EPA SAMPLE NO.

X202

EE046

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03965

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24990

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 20 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	22	
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	7	J
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	11	J
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	6	J
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X202

EE046

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03965

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24990

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 20 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	130	
108-87-2	Methylcyclohexane	7	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	8	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	67	
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	5	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X202

EE046

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03965

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24990

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 20 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

EE047

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966

Sample wt/vol: 5.6(g/mL) G Lab File ID: B24980

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 18 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	150	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	200	
75-09-2	Methylene Chloride	5	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl 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	10	J
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.

X101

EE047

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966

Sample wt/vol: 5.6(g/mL) G Lab File ID: B24980

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 18 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	6	J
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.
X101
EE047

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966

Sample wt/vol: 5.6 (g/mL) G Lab File ID: B24980

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 18 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 109660	PENTANE	1.94	15	NJ
2. 503300	TRIMETHYLENE OXIDE	2.48	6	NJ
3. 123728	BUTANAL	5.32	18	NJ
4. 563804	2-BUTANONE, 3-METHYL-	7.95	12	NJ
5. 110623	PENTANAL	9.11	28	NJ
6. 541059	CYCLOTRISILOXANE, HEXAMETHYL	11.82	5	NJ
7. 66251	HEXANAL	12.27	130	NJ
8. 98011	2-FURANCARBOXALDEHYDE	13.85	14	NJ
9. 111717	HEPTANAL	14.95	12	NJ
10. 556672	CYCLOTETRASILOXANE, OCTAMETH	16.05	16	NJ
11. 124130	OCTANAL	17.33	8	NJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

EE048

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967

Sample wt/vol: 5.9(g/mL) G Lab File ID: B24998

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 19 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	200	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	260	E
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl 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	10	J
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.

X102

EE048

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967

Sample wt/vol: 5.9(g/mL) G Lab File ID: B24998

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 19 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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

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EPA SAMPLE NO.
X102

EE048

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967

Sample wt/vol: 5.9 (g/mL) G Lab File ID: B24998

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: not dec. 19 Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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.	109660	PENTANE	1.93	7	NJ
2.	503300	TRIMETHYLENE OXIDE	2.48	6	NJ
3.	123728	BUTANAL	5.32	16	NJ
4.	563804	2-BUTANONE, 3-METHYL-	7.96	7	NJ
5.	110623	PENTANAL	9.11	18	NJ
6.	66251	HEXANAL	12.28	68	NJ
7.	98011	2-FURANCARBOXALDEHYDE	13.87	14	NJ
8.	556672	CYCLOTETRASILOXANE, OCTAMETH	16.07	18	NJ
9.					
10.					
11.					
12.					
13.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1209002

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24973

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	5	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	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

EPA SAMPLE NO.

VBLK02

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1209002

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24973

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1209002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24973

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) 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.	625274	2-PENTENE, 2-METHYL-	4.65	6	NJ
2.	541059	CYCLOTRISILOXANE, HEXAMETHYL	11.82	7	NJ
3.	556672	CYCLOTETRASILOXANE, OCTAMETH	16.05	7	NJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1209001

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24985

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) 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	8	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	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
[illegible]	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.

VBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1209001

Sample wt/vol: 5.0(g/mL) G Lab File ID: B24985

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1209001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B24985

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/09/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) 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.	625274	2-PENTENE, 2-METHYL-	4.65	8	NJ
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1210001

Sample wt/vol: 5.0(g/mL) G Lab File ID: B25008

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) 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	6	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	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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK04

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1210001

Sample wt/vol: 5.0(g/mL) G Lab File ID: B25008

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) 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.

VBLK04

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1210001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B25008

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/10/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) 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.	625274	2-PENTENE, 2-METHYL-	4.65	9	NJ
2.					
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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK05

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1211001

Sample wt/vol: 5.0(g/mL) G Lab File ID: B25022

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/11/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) 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	8	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	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

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK05

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1211001

Sample wt/vol: 5.0(g/mL) G Lab File ID: B25022

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/11/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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.

VBLK05

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QVS1211001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B25022

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/11/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) 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. 691383	2-PENTENE, 4-METHYL-, (Z)-	4.67	10	NJ
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK05

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03916

Sample wt/vol: 5.0(g/mL) G Lab File ID: B25036

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) 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	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.

VHBLK05

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03916

Sample wt/vol: 5.0(g/mL) G Lab File ID: B25036

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/00

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) 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.

VHBLK05

Lab Name: ACCURA ANALYTICAL LABORAT . Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03916

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B25036

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/00

GC Column: DB-624 ID: 0.32 (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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

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	SBLK01	59	65	76	60	52	76	60	56	
02	EE03T	31	38	48	35	29	41	33	32	
03	EE040	60	60	75	59	38	76	48	42	
04	EE041	41	50	73	61	48	70	55	41	
05	EE042	40	48	74	57	43	77	51	37	
06	EE043	44	53	50	61	45	76	53	41	
07	EE044	62	52	71	68	55	87	61	47	
08	EE045	60	55	80	60	40	87	50	46	
09	EE046	62	57	67	55	32	65	42	42	
10	EE047	70	60	65	7*	11*	47	33	50	
11	EE048	71	62	67	14*	16*	45	39	52	
12	EE048MS	76	67	71	65	61	68	61	62	
13	EE048MSD	76	67	76	68	65	68	65	62	
14	SBLK03	65	65	76	64	60	76	60	59	
15	EE047RE	60	65	75	50	40	67	50	45	
16	EE048RE	67	67	67	65	55	65	61	57	
17	EE03NDL	14*	15*	15*	14*	12*	14*	14*	13*	
18	EE03K	13*	15*	26	14*	11*	16*	13*	13*	
19	EE03J	0*	3*	3*	2*	1*	2*	2*	0*	
20	EE03M	70	65	100	66	66	83	66	60	
21	EE03KDL	0*	3*	4*	2*	2*	3*	2*	2*	
22	EE03L	0*	0*	0*	0*	0*	0*	0*	0*	
23	EE03LDL	0*	0*	0*	0*	0*	0*	0*	0*	
24										
25										
26										
27										
28										
29										
30										

		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

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix Spike - EPA Sample No.: EE048 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE AMOUNT (ug/mL)	MS AMOUNT (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3100	0.0	2000	65	26- 90
2-Chlorophenol	3100	0.0	1900	61	25-102
N-Nitroso-di-n-prop.(1)	2100	0.0	1500	71	41-126
4-Chloro-3-methylphenol	3100	0.0	2100	68	26-103
Acenaphthene	2100	0.0	1400	67	31-137
4-Nitrophenol	3100	0.0	2500	81	11-114
2,4-Dinitrotoluene	2100	0.0	1500	71	28- 89
Pentachlorophenol	3100	0.0	2500	81	17-109
Pyrene	2100	74	1600	73	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD AMOUNT (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3100	2100	68	5	35	26- 90
2-Chlorophenol	3100	2000	65	6	50	25-102
N-Nitroso-di-n-prop.(1)	2100	1600	76	7	38	41-126
4-Chloro-3-methylphenol	3100	2200	71	4	33	26-103
Acenaphthene	2100	1500	71	6	19	31-137
4-Nitrophenol	3100	2800	90	11	50	11-114
2,4-Dinitrotoluene	2100	1600	76	7	47	28- 89
Pentachlorophenol	3100	2600	84	4	47	17-109
Pyrene	2100	1600	73	0	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: 0 out of 18 outside limits

COMMENTS: _____

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK01

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Lab File ID: A22540 Lab Sample ID: QSS1208001

Instrument ID: SVOA#1 Date Extracted: 12/08/00

Matrix: (soil/water) SOIL Date Analyzed: 12/13/00

Level: (low/med) LOW Time Analyzed: 1221

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE03T	AC03958	A22544	12/13/00
02	EE040	AC03959	A22545	12/13/00
03	EE041	AC03960	A22546	12/13/00
04	EE042	AC03961	A22547	12/13/00
05	EE043	AC03962	A22548	12/13/00
06	EE044	AC03963	A22549	12/13/00
07	EE045	AC03964	A22550	12/13/00
08	EE046	AC03965	A22554	12/14/00
09	EE047	AC03966	A22555	12/14/00
10	EE048	AC03967	A22556	12/14/00
11	EE048MS	AC03967MS	A22557	12/14/00
12	EE048MSD	AC03967MSD	A22558	12/14/00
13	EE03MDL	AC03957DL	A22572	12/16/00
14	EE03K	AC03955	A22573	12/16/00
15	EE03J	AC03954	A22575	12/16/00
16	EE03M	AC03957	A22576	12/16/00
17	EE03KDL	AC03955DL	A22582	12/18/00
18	EE03L	AC03956	A22583	12/18/00
19	EE03LDL	AC03956DL	A22584	12/18/00
20				
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Lab File ID: A22569 Lab Sample ID: QSS1215001

Instrument ID: SVOA#1 Date Extracted: 12/08/00

Matrix: (soil/water) SOIL Date Analyzed: 12/16/00

Level:(low/med) LOW Time Analyzed: 1201

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE047RE	AC03966RE	A22570	12/16/00
02	EE048RE	AC03967RE	A22571	12/16/00
03				
04				
05				
06				
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COMMENTS:

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK01

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QSS1208001

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22540

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	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.

SBLK01

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QSS1208001

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22540

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	330	U
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	330	U
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	1700	
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	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

EPA SAMPLE NO.

SBLK01

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QSS1208001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22540

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QSS1215001

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22569

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	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

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QSS1215001

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22569

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	330	U
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	330	U
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	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK03

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QSS1215001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22569

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X104

EE03J

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03954

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22575

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1700	U
108-95-2	Phenol	1700	U
111-44-4	bis(2-Chloroethyl)Ether	1700	U
95-57-8	2-Chlorophenol	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	1700	U
98-86-2	Acetophenone	1700	U
106-44-5	4-Methylphenol	1700	U
621-64-7	N-Nitroso-di-n-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
91-20-3	Naphthalene	600	J
106-47-8	4-Chloroaniline	1700	U
111-91-1	bis(2-Chloroethoxy)methane	1700	U
87-68-3	Hexachlorobutadiene	1700	U
105-60-2	Caprolactam	1700	U
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	2900	
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	4200	U
92-52-4	1,1'-Biphenyl	220	J
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	4200	U
131-11-3	Dimethylphthalate	1700	U
606-20-2	2,6-Dinitrotoluene	1700	U
208-96-8	Acenaphthylene	1700	U
99-09-2	3-Nitroaniline	4200	U
83-32-9	Acenaphthene	720	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

EE03J

Lab Name: ACCURA ANALYTICAL LABORAT . Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03954

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22575

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4200	U
100-02-7	4-Nitrophenol	4200	U
132-64-9	Dibenzofuran	600	J
121-14-2	2,4-Dinitrotoluene	1700	U
84-66-2	Diethylphthalate	1700	U
86-73-7	Fluorene	1200	J
7005-72-3	4-Chlorophenyl-phenylether	1700	U
100-01-6	4-Nitroaniline	4200	U
534-52-1	4,6-Dinitro-2-methylphenol	4200	U
86-30-6	N-Nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
1912-24-9	Atrazine	1700	U
87-86-5	Pentachlorophenol	1800	J
85-01-8	Phenanthrene	3000	
120-12-7	Anthracene	570	J
86-74-8	Carbazole	280	J
84-74-2	Di-n-butylphthalate	1700	U
206-44-0	Fluoranthene	950	J
129-00-0	Pyrene	1300	J
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
56-55-3	Benzo(a)anthracene	440	J
218-01-9	Chrysene	620	J
117-81-7	bis(2-Ethylhexyl)phthalate	280	J
117-84-0	Di-n-octylphthalate	1700	U
205-99-2	Benzo(b)fluoranthene	1700	U
207-08-9	Benzo(k)fluoranthene	1700	U
50-32-8	Benzo(a)pyrene	1700	U
193-39-5	Indeno(1,2,3-cd)pyrene	1700	U
53-70-3	Dibenz(a,h)anthracene	1700	U
191-24-2	Benzo(g,h,i)perylene	1700	U

1G

EPA SAMPLE NO.

X104

EE03J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03954

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22575

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 28

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	91576	NAPHTHALENE, 2-METHYL-	17.16	2800	NJ
2.	5557937	BENZENE, 1-(1-METHYLETHENYL)	18.35	1400	NJ
3.	1127760	NAPHTHALENE, 1-ETHYL-	18.41	1300	NJ
4.	581420	NAPHTHALENE, 2,6-DIMETHYL-	18.59	4600	NJ
5.	581420	NAPHTHALENE, 2,6-DIMETHYL-	18.82	4900	NJ
6.	575371	NAPHTHALENE, 1,7-DIMETHYL-	18.87	1900	NJ
7.	2131422	NAPHTHALENE, 1,4,6-TRIMETHYL	20.29	2300	NJ
8.	2245387	NAPHTHALENE, 1,6,7-TRIMETHYL	20.37	2600	NJ
9.	2245387	NAPHTHALENE, 1,6,7-TRIMETHYL	20.59	2300	NJ
10.	829265	NAPHTHALENE, 2,3,6-TRIMETHYL	20.64	1900	NJ
11.	829265	NAPHTHALENE, 2,3,6-TRIMETHYL	20.82	2500	NJ
12.	[illegible]	3-METHYL-4-(METHOXYCARBONYL)	21.49	1800	NJ
13.	429055	AZULENE, 7-ETHYL-1,4-DIMETHY	22.19	3100	NJ
14.	491653	NAPHTHALENE, 1-METHYL-7-(1-M	22.40	1500	NJ
15.	1481273	9H-FLUORENE, 2-METHYL-	22.70	1800	NJ
16.	[illegible]	BENZENE, 1,1'-METHYLENEBIS[3	22.99	2400	NJ
17.	[illegible]	TETRADECANE	23.41	3000	NJ
18.	[illegible]	BENZENE, 1-METHYL-2-(2-PHENY	24.17	1900	NJ
19.	[illegible]	9H-FLUORENE, 2,3-DIMETHYL-	24.33	2000	NJ
20.	[illegible]	DIBENZOTHIOPHENE, 3-METHYL-	24.52	2400	NJ
21.	[illegible]	DIBENZOTHIOPHENE, 4-METHYL-	24.73	1900	NJ
22.	[illegible]	ANTHRACENE, 9-METHYL-	24.96	1700	NJ
23.	[illegible]	PHENANTHRENE, 1-METHYL-	25.05	5600	NJ
24.	[illegible]	ANTHRACENE, 9-METHYL-	25.27	1700	NJ
25.	[illegible]	S-INDACEN-1(2H)-ONE, 3,5,6,7	26.18	6600	NJ
26.	[illegible]	PENTADECANE	26.46	3100	NJ
27.	[illegible]	PHENANTHRENE, 2,3,5-TRIMETHY	27.65	1500	NJ
28.	593453	OCTADECANE	28.36	2000	NJ
29.					
30.					

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

EE03K

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03955

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22573

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	bis(2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	370	J
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	3900	
106-47-8	4-Chloroaniline	2000	U
111-91-1	bis(2-Chloroethoxy)methane	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	3000	
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	5000	U
92-52-4	1,1'-Biphenyl	800	J
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	5000	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	330	J
99-09-2	3-Nitroaniline	5000	U
83-32-9	Acenaphthene	5000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

EE03K

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03955

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22573

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5000	U
100-02-7	4-Nitrophenol	5000	U
132-64-9	Dibenzofuran	3700	
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	7000	
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	5000	U
534-52-1	4,6-Dinitro-2-methylphenol	5000	U
86-30-6	N-Nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	5000	U
85-01-8	Phenanthrene	29000	E
120-12-7	Anthracene	11000	
86-74-8	Carbazole	7200	
84-74-2	Di-n-butylphthalate	370	J
206-44-0	Fluoranthene	33000	E
129-00-0	Pyrene	46000	E
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo[a]anthracene	33000	E
218-01-9	Chrysene	36000	E
117-81-7	bis(2-Ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo[b]fluoranthene	31000	E
207-08-9	Benzo[k]fluoranthene	20000	E
50-32-8	Benzo[a]pyrene	28000	E
193-39-5	Indeno[1,2,3-cd]pyrene	16000	E
53-70-3	Dibenz[a,h]anthracene	10000	
191-24-2	Benzo[g,h,i]perylene	16000	E

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X105

EE03K

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03955

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22573

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 91576	NAPHTHALENE, 2-METHYL-	17.16	2300	NJ
2. 581420	NAPHTHALENE, 2,6-DIMETHYL-	18.56	1700	NJ
3. 581408	NAPHTHALENE, 2,3-DIMETHYL-	18.80	2400	NJ
4. 571619	NAPHTHALENE, 1,5-DIMETHYL-	18.85	1000	NJ
5. 581408	NAPHTHALENE, 2,3-DIMETHYL-	19.09	1000	NJ
6. 2131422	NAPHTHALENE, 1,4,6-TRIMETHYL	20.34	860	NJ
7. 2245387	NAPHTHALENE, 1,6,7-TRIMETHYL	20.58	860	NJ
8. 829265	NAPHTHALENE, 2,3,6-TRIMETHYL	20.80	850	NJ
9. 643583	1,1'-BIPHENYL, 2-METHYL-	21.38	1300	NJ
10. 644086	1,1'-BIPHENYL, 4-METHYL-	21.47	1400	NJ
11. 7320538	DIBENZOFURAN, 4-METHYL-	21.58	1800	NJ
12. 613127	ANTHRACENE, 2-METHYL-	24.95	980	NJ
13. 610480	ANTHRACENE, 1-METHYL-	25.03	790	NJ
14. 129000	PYRENE	27.45	4200	NJ
15. 243174	11H-BENZO[B]FLUORENE	28.04	1200	NJ
16. 238846	11H-BENZO[A]FLUORENE	28.34	2200	NJ
17. 3442782	PYRENE, 2-METHYL-	28.60	810	NJ
18. 82053	7H-BENZ[DE]ANTHRACEN-7-ONE	29.68	780	NJ
19. 239350	BENZO[B]NAPHTHO[2,1-D]THIOPH	29.96	1000	NJ
20. 25732745	3,4-DIHYDROCYCLOPENTA(CD)PYR	30.04	860	NJ
21. 203123	BENZO[GHI]FLUORANTHENE	30.11	940	NJ
22. 82053	7H-BENZ[DE]ANTHRACEN-7-ONE	30.22	880	NJ
23. 1705846	TRIPHENYLENE, 2-METHYL-	31.84	770	NJ
24. 49858915	1-BENZOPYRYLIUM, 2-(4-CHLORO	32.31	830	NJ
25. 207089	BENZO[K]FLUORANTHENE	34.70	11000	NJ
26. 198550	PERYLENE	35.45	33000	NJ
27. 198550	PERYLENE	36.03	11000	NJ
28. 3343100	BENZ[J]ACEANTHRYLENE, 3-METH	36.68	2700	NJ
29. 53703	DIBENZ[A,H]ANTHRACENE	42.80	9100	NJ
30. 53703	DIBENZ[A,H]ANTHRACENE	43.09	5700	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

EE03KDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03955DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22582

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9900	U
108-95-2	Phenol	9900	U
111-44-4	bis(2-Chloroethyl)Ether	9900	U
95-57-8	2-Chlorophenol	9900	U
95-48-7	2-Methylphenol	9900	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	9900	U
98-86-2	Acetophenone	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-di-n-propylamine	9900	U
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	9900	U
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
120-83-2	2,4-Dichlorophenol	9900	U
91-20-3	Naphthalene	4600	DJ
106-47-8	4-Chloroaniline	9900	U
111-91-1	bis(2-Chloroethoxy)methane	9900	U
87-68-3	Hexachlorobutadiene	9900	U
105-60-2	Caprolactam	9900	U
59-50-7	4-Chloro-3-methylphenol	9900	U
91-57-6	2-Methylnaphthalene	3000	DJ
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	9900	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	9900	U
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U
208-96-8	Acenaphthylene	9900	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	6200	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X105

EE03KDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03955DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22582

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	4400	DJ
121-14-2	2,4-Dinitrotoluene	9900	U
84-66-2	Diethylphthalate	9900	U
86-73-7	Fluorene	8300	DJ
7005-72-3	4-Chlorophenyl-phenylether	9900	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine_(1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	9900	U
1912-24-9	Atrazine	9900	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	52000	D
120-12-7	Anthracene	14000	D
86-74-8	Carbazole	8700	DJ
84-74-2	Di-n-butylphthalate	9900	U
206-44-0	Fluoranthene	66000	D
129-00-0	Pyrene	60000	D
85-68-7	Butylbenzylphthalate	9900	U
91-94-1	3,3'-Dichlorobenzidine	9900	U
56-55-3	Benzo(a)anthracene	39000	D
218-01-9	Chrysene	44000	D
117-81-7	bis(2-Ethylhexyl)phthalate	9900	U
117-84-0	Di-n-octylphthalate	9900	U
205-99-2	Benzo(b)fluoranthene	34000	D
207-08-9	Benzo(k)fluoranthene	30000	D
50-32-8	Benzo(a)pyrene	36000	D
193-39-5	Indeno(1,2,3-cd)pyrene	21000	D
53-70-3	Dibenz(a,h)anthracene	12000	D
191-24-2	Benzo(g,h,i)perylene	18000	D

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X105

EE03KDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03955DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22582

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

EE03L

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22583

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 10 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9300	U
108-95-2	Phenol	9300	U
111-44-4	bis(2-Chloroethyl)Ether	9300	U
95-57-8	2-Chlorophenol	9300	U
95-48-7	2-Methylphenol	9300	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	9300	U
98-86-2	Acetophenone	9300	U
106-44-5	4-Methylphenol	2200	J
621-64-7	N-Nitroso-di-n-propylamine	9300	U
67-72-1	Hexachloroethane	9300	U
98-95-3	Nitrobenzene	9300	U
78-59-1	Isophorone	9300	U
88-75-5	2-Nitrophenol	9300	U
105-67-9	2,4-Dimethylphenol	1100	J
120-83-2	2,4-Dichlorophenol	9300	U
91-20-3	Naphthalene	58000	
106-47-8	4-Chloroaniline	9300	U
111-91-1	bis(2-Chloroethoxy)methane	9300	U
87-68-3	Hexachlorobutadiene	9300	U
105-60-2	Caprolactam	9300	U
59-50-7	4-Chloro-3-methylphenol	9300	U
91-57-6	2-Methylnaphthalene	28000	
77-47-4	Hexachlorocyclopentadiene	9300	U
88-06-2	2,4,6-Trichlorophenol	9300	U
95-95-4	2,4,5-Trichlorophenol	23000	U
92-52-4	1,1'-Biphenyl	9300	
91-58-7	2-Chloronaphthalene	9300	U
88-74-4	2-Nitroaniline	23000	U
131-11-3	Dimethylphthalate	9300	U
606-20-2	2,6-Dinitrotoluene	9300	U
208-96-8	Acenaphthylene	1200	J
99-09-2	3-Nitroaniline	23000	U
83-32-9	Acenaphthene	37000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

EE03L

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22583

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 10 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	23000	U
100-02-7	4-Nitrophenol	23000	U
132-64-9	Dibenzofuran	38000	
121-14-2	2,4-Dinitrotoluene	9300	U
84-66-2	Diethylphthalate	9300	U
86-73-7	Fluorene	50000	
7005-72-3	4-Chlorophenyl-phenylether	9300	U
100-01-6	4-Nitroaniline	23000	U
534-52-1	4,6-Dinitro-2-methylphenol	23000	U
86-30-6	N-Nitrosodiphenylamine (1)	9300	U
101-55-3	4-Bromophenyl-phenylether	9300	U
118-74-1	Hexachlorobenzene	9300	U
1912-24-9	Atrazine	9300	U
87-86-5	Pentachlorophenol	23000	U
85-01-8	Phenanthrene	150000	E
120-12-7	Anthracene	66000	
86-74-8	Carbazole	46000	
84-74-2	Di-n-butylphthalate	9300	U
206-44-0	Fluoranthene	150000	E
129-00-0	Pyrene	140000	E
85-68-7	Butylbenzylphthalate	9300	U
91-94-1	3,3'-Dichlorobenzidine	9300	U
56-55-3	Benzo[a]anthracene	96000	E
218-01-9	Chrysene	97000	E
117-81-7	bis(2-Ethylhexyl)phthalate	9300	U
117-84-0	Di-n-octylphthalate	9300	U
205-99-2	Benzo[b]fluoranthene	84000	E
207-08-9	Benzo[k]fluoranthene	65000	
50-32-8	Benzo[a]pyrene	84000	E
193-39-5	Indeno[1,2,3-cd]pyrene	40000	
53-70-3	Dibenz[a,h]anthracene	23000	
191-24-2	Benzo[g,h,i]perylene	39000	

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X103

EE03L

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22583

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 10 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 90120	NAPHTHALENE, 1-METHYL-	17.07	18000	NJ
2. 939275	NAPHTHALENE, 2-ETHYL-	18.31	2500	NJ
3. 571619	NAPHTHALENE, 1,5-DIMETHYL-	18.48	8600	NJ
4. 569415	NAPHTHALENE, 1,8-DIMETHYL-	18.70	11000	NJ
5. 581420	NAPHTHALENE, 2,6-DIMETHYL-	18.76	4800	NJ
6. 581408	NAPHTHALENE, 2,3-DIMETHYL-	19.01	4600	NJ
7. 643936	1,1'-BIPHENYL, 3-METHYL-	19.57	3300	NJ
8. 86533	1-NAPHTHALENECARBONITRILE	19.82	2700	NJ
9. 2320323	BENZENE, [1-(2,4-CYCLOPENTAD	21.20	2300	NJ
10. 59247368	FLUORENE, 2,4A-DIHYDRO-	21.29	7900	NJ
11. 2489863	NAPHTHALENE, 1-(2-PROPENYL)-	21.39	4400	NJ
12. 7320538	DIBENZOFURAN, 4-METHYL-	21.50	8800	NJ
13. 610480	ANTHRACENE, 1-METHYL-	24.87	2800	NJ
14. 203645	4H-CYCLOPENTA[DEF]PHENANTHRE	25.18	4800	NJ
15. 243174	11H-BENZO[B]FLUORENE	27.96	3700	NJ
16. 243174	11H-BENZO[B]FLUORENE	28.23	5800	NJ
17. 243174	11H-BENZO[B]FLUORENE	28.40	3900	NJ
18. 3442782	PYRENE, 2-METHYL-	28.51	2500	NJ
19. 239350	BENZO[B]NAPHTHO[2,1-D]THIOPH	29.86	2900	NJ
20. 25732745	3,4-DIHYDROCYCLOPENTA(CD)PYR	29.93	2900	NJ
21. 0	ANTHRACENE, 1,8-DIETHYNYL-	30.02	3400	NJ
22. 195197	BENZO[C]PHENANTHRENE	30.88	3300	NJ
23. 1836879	9H-FLUORENE, 9-(PHENYLMETHYL	33.55	21000	NJ
24. 207089	BENZO[K]FLUORANTHENE	34.57	40000	NJ
25. 0	4,5-DIHYDRO-4,5-EPOXYBENZPYR	34.95	18000	NJ
26. 198550	PERYLENE	35.31	87000	NJ
27. 18110866	5-HYDROXY-4-METHOXY-6H-INDOL	36.53	5500	NJ
28. 53703	DIBENZ[A,H]ANTHRACENE	41.07	9400	NJ
29. 215587	BENZO[B]TRIPHENYLENE	42.64	13000	NJ
30. 191242	BENZO[GHI]PERYLENE	44.74	6200	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X10J

EE03LDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22584

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 10 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 125.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	46000	U
108-95-2	Phenol	46000	U
111-44-4	bis(2-Chloroethyl)Ether	46000	U
95-57-8	2-Chlorophenol	46000	U
95-48-7	2-Methylphenol	46000	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	46000	U
98-86-2	Acetophenone	46000	U
106-44-5	4-Methylphenol	46000	U
621-64-7	N-Nitroso-di-n-propylamine	46000	U
67-72-1	Hexachloroethane	46000	U
98-95-3	Nitrobenzene	46000	U
78-59-1	Isophorone	46000	U
88-75-5	2-Nitrophenol	46000	U
105-67-9	2,4-Dimethylphenol	46000	U
120-83-2	2,4-Dichlorophenol	46000	U
91-20-3	Naphthalene	78000	D
106-47-8	4-Chloroaniline	46000	U
111-91-1	bis(2-Chloroethoxy)methane	46000	U
87-68-3	Hexachlorobutadiene	46000	U
105-60-2	Caprolactam	46000	U
59-50-7	4-Chloro-3-methylphenol	46000	U
91-57-6	2-Methylnaphthalene	30000	DJ
77-47-4	Hexachlorocyclopentadiene	46000	U
88-06-2	2,4,6-Trichlorophenol	46000	U
95-95-4	2,4,5-Trichlorophenol	120000	U
92-52-4	1,1'-Biphenyl	8300	DJ
91-58-7	2-Chloronaphthalene	46000	U
88-74-4	2-Nitroaniline	120000	U
131-11-3	Dimethylphthalate	46000	U
606-20-2	2,6-Dinitrotoluene	46000	U
208-96-8	Acenaphthylene	46000	U
99-09-2	3-Nitroaniline	120000	U
83-32-9	Acenaphthene	44000	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X103

EE03LDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22584

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 10 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 125.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	120000	U
100-02-7	4-Nitrophenol	120000	U
132-64-9	Dibenzofuran	46000	DJ
121-14-2	2,4-Dinitrotoluene	46000	U
84-66-2	Diethylphthalate	46000	U
86-73-7	Fluorene	66000	D
7005-72-3	4-Chlorophenyl-phenylether	46000	U
100-01-6	4-Nitroaniline	120000	U
534-52-1	4,6-Dinitro-2-methylphenol	120000	U
86-30-6	N-Nitrosodiphenylamine (1)	46000	U
101-55-3	4-Bromophenyl-phenylether	46000	U
118-74-1	Hexachlorobenzene	46000	U
1912-24-9	Atrazine	46000	U
87-86-5	Pentachlorophenol	120000	U
85-01-8	Phenanthrene	270000	D
120-12-7	Anthracene	81000	D
86-74-8	Carbazole	47000	D
84-74-2	Di-n-butylphthalate	46000	U
206-44-0	Fluoranthene	240000	D
129-00-0	Pyrene	230000	D
85-68-7	Butylbenzylphthalate	46000	U
91-94-1	3,3'-Dichlorobenzidine	46000	U
56-55-3	Benzo(a)anthracene	110000	D
218-01-9	Chrysene	110000	D
117-81-7	bis(2-Ethylhexyl)phthalate	46000	U
117-84-0	Di-n-octylphthalate	46000	U
205-99-2	Benzo(b)fluoranthene	88000	D
207-08-9	Benzo(k)fluoranthene	81000	D
50-32-8	Benzo(a)pyrene	98000	D
193-39-5	Indeno(1,2,3-cd)pyrene	54000	D
53-70-3	Dibenz(a,h)anthracene	26000	DJ
191-24-2	Benzo(g,h,i)perylene	50000	D

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X103
EE03LDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22584

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 10 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/00

Injection Volume: 2.0(uL) Dilution Factor: 125.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

EE03M

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03957

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22576

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	J
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	470	
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	77	J
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	460	
106-47-8	4-Chloroaniline	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	280	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	110	J
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	830	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

EE03M

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03957

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22576

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	540	
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	960	
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	3600	E
120-12-7	Anthracene	1200	
86-74-8	Carbazole	770	
84-74-2	Di-n-butylphthalate	190	J
206-44-0	Fluoranthene	3500	E
129-00-0	Pyrene	4800	E
85-68-7	Butylbenzylphthalate	280	J
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo[a]anthracene	2200	
218-01-9	Chrysene	2400	
117-81-7	bis(2-Ethylhexyl)phthalate	1700	
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo[b]fluoranthene	2000	
207-08-9	Benzo[k]fluoranthene	1600	
50-32-8	Benzo[a]pyrene	2200	
193-39-5	Indeno[1,2,3-cd]pyrene	1400	
53-70-3	Dibenz[a,h]anthracene	690	
191-24-2	Benzo[g,h,i]perylene	2200	

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X106
EE03M

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03957

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22576

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124185	DECANE	10.94	910	NJ
2. 1195795	BICYCLO[2.2.1]HEPTAN-2-ONE,	13.07	1100	NJ
3. 1120214	UNDECANE	13.15	680	NJ
4. 464482	BICYCLO[2.2.1]HEPTAN-2-ONE,	14.24	2800	NJ
5. 13905107	4-HEXEN-3-ONE, 5-METHYL-	15.39	560	NJ
6. 89838	THYMOL	16.59	570	NJ
7. 31295564	DODECANE, 2,6,11-TRIMETHYL-	17.83	560	NJ
8. 581420	NAPHTHALENE, 2,6-DIMETHYL-	18.86	790	NJ
9. 112958	EICOSANE	19.05	530	NJ
10. 25246279	1H-CYCLOPROP[E]AZULENE, DECA	19.13	490	NJ
11. 629629	PENTADECANE	19.56	550	NJ
12. 4053423	QUINOLINE, 6-METHYL-, 1-OXID	20.56	520	NJ
13. 544763	HEXADECANE	20.88	610	NJ
14. 15869939	OCTANE, 3,5-DIMETHYL-	21.50	900	NJ
15. 629787	HEPTADECANE	22.11	1200	NJ
16. 1921706	PENTADECANE, 2,6,10,14-TETRA	22.20	1400	NJ
17. 544638	TETRADECANOIC ACID	22.86	1300	NJ
18. 629594	TETRADECANE	23.42	1000	NJ
19. 33675751	PHENOL, 3-(2-PHENYLETHYL)-	24.01	6100	NJ
20. 610480	ANTHRACENE, 1-METHYL-	24.98	540	NJ
21. 57103	HEXADECANOIC ACID	25.18	7300	NJ
22. 0	MURISTOYL PANTETHEINE	25.85	880	NJ
23. 7225641	HEPTADECANE, 9-OCTYL-	34.47	2000	NJ
24. 192972	BENZO[E]PYRENE	35.45	780	NJ
25. 593497	HEPTACOSANE	37.91	930	NJ
26. 15404327	NAPHTHO[2,3-B]FURAN-9(4H)-ON	39.90	1200	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

EE03MDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03957DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22572

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	bis(2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	380	DJ
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	460	DJ
106-47-8	4-Chloroaniline	2000	U
111-91-1	bis(2-Chloroethoxy)methane	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	270	DJ
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	4900	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	4900	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	4900	U
83-32-9	Acenaphthene	900	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X106

EE03MDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03957DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22572

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4900	U
100-02-7	4-Nitrophenol	4900	U
132-64-9	Dibenzofuran	530	DJ
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	1100	DJ
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	4900	U
534-52-1	4,6-Dinitro-2-methylphenol	4900	U
86-30-6	N-Nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	4900	U
85-01-8	Phenanthrene	5600	D
120-12-7	Anthracene	1400	DJ
86-74-8	Carbazole	860	DJ
84-74-2	Di-n-butylphthalate	210	DJ
206-44-0	Fluoranthene	6200	D
129-00-0	Pyrene	5000	D
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2200	D
218-01-9	Chrysene	2600	D
117-81-7	Bis(2-Ethylhexyl)phthalate	2000	D
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2200	D
207-08-9	Benzo(k)fluoranthene	1800	DJ
50-32-8	Benzo(a)pyrene	2300	D
193-39-5	Indeno(1,2,3-cd)pyrene	1100	DJ
53-70-3	Dibenz(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	1700	DJ

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X106
EE03MDL

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03957DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22572

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 629209	1,3,5,7-CYCLOOCTATETRAENE	7.95	1500	NJD
2. 111842	NONANE	10.94	940	NJD
3. 1195795	BICYCLO[2.2.1]HEPTAN-2-ONE,	13.07	1200	NJD
4. 1120214	UNDECANE	13.14	760	NJD
5. 464482	BICYCLO[2.2.1]HEPTAN-2-ONE,	14.21	3600	NJD
6. 17301289	UNDECANE, 3,6-DIMETHYL-	21.47	770	NJD
7. 111013	SQUALANE	22.18	1000	NJD
8. 3891983	DODECANE, 2,6,10-TRIMETHYL-	23.40	850	NJD
9. 33675751	PHENOL, 3-(2-PHENYLETHYL)-	23.94	10000	NJD
10. 57103	HEXADECANOIC ACID	25.05	8000	NJD
11. 84651	9,10-ANTHRACENEDIONE	25.78	750	NJD
12. 0	9,9-DIMETHYL-9-SILA-9,10-DIH	26.39	1000	NJD
13. 295170	CYCLOTETRADECANE	26.88	700	NJD
14. 53963	N-2-FLUORENYLACETAMIDE	26.99	9200	NJD
15. 57114	OCTADECANOIC ACID	27.07	1900	NJD
16. 629947	HENEICOSANE	31.97	670	NJD
17. 629947	HENEICOSANE	34.41	2000	NJD
18. 207089	BENZO[K]FLUORANTHENE	35.34	1000	NJD
19. 630024	OCTACOSANE	37.82	740	NJD
20. 35727458	CYCLOHEXANOL, 3-ETHENYL-3-ME	39.80	780	NJD
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107.

EE03T

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03958

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22544

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 8 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	360	U
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	360	U
98-86-2	Acetophenone	39	J
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
105-60-2	Caprolactam	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	910	U
92-52-4	1,1'-Biphenyl	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	360	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	360	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

EE03T

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03958

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22544

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 8 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	38	J
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
1912-24-9	Atrazine	360	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	310	J
120-12-7	Anthracene	65	J
86-74-8	Carbazole	40	J
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	J
129-00-0	Pyrene	320	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo[a]anthracene	150	J
218-01-9	Chrysene	160	J
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo[b]fluoranthene	130	J
207-08-9	Benzo[k]fluoranthene	100	J
50-32-8	Benzo[a]pyrene	130	J
193-39-5	Indeno[1,2,3-cd]pyrene	68	J
53-70-3	Dibenz[a,h]anthracene	360	U
191-24-2	Benzo[g,h,i]perylene	65	J

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X107
EE03T

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03958

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22544

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 8 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 91645	2H-1-BENZOPYRAN-2-ONE	19.03	110	NJ
2. 544854	DOTRIACONTANE	34.34	120	NJ
3. 192972	BENZO[E]PYRENE	35.21	77	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X203

EE040

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03959

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22545

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X203

EE040

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03959

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22545

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine_(1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	46	J
129-00-0	Pyrene	51	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo[a]anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo[b]fluoranthene	390	U
207-08-9	Benzo[k]fluoranthene	390	U
50-32-8	Benzo[a]pyrene	390	U
193-39-5	Indeno[1,2,3-cd]pyrene	390	U
53-70-3	Dibenz[a,h]anthracene	390	U
191-24-2	Benzo[g,h,i]perylene	390	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X203

EE040

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03959

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22545

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 15 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X204

EE041

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03960

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22546

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 25 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	440	U
98-86-2	Acetophenone	59	J
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1D

EPA SAMPLE NO.

X204

EE041

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03960

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22546

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 25 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	200	J
120-12-7	Anthracene	57	J
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	370	J
129-00-0	Pyrene	470	
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo[a]anthracene	280	J
218-01-9	Chrysene	310	J
117-81-7	bis(2-Ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo[b]fluoranthene	190	J
207-08-9	Benzo[k]fluoranthene	220	J
50-32-8	Benzo[a]pyrene	290	J
193-39-5	Indeno[1,2,3-cd]pyrene	130	J
53-70-3	Dibenz[a,h]anthracene	440	U
191-24-2	Benzo[g,h,i]perylene	140	J

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X204

EE041

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03960

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22546

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 25 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110601	1,4-BUTANEDIAMINE	9.85	110	NJ
2. 74663915	CYCLOPROPANE, 1-HEPTYL-2-MET	19.18	110	NJ
3. 613127	ANTHRACENE, 2-METHYL-	24.97	130	NJ
4. 0	(6H)CYCLOBUTA[JK]PHENANTHREN	25.19	110	NJ
5. 243174	11H-BENZO[B]FLUORENE	28.23	110	NJ
6. 0	10-METHYLNONADECANE	30.05	98	NJ
7. 55103496	ASPIDOFRACTININE, 3-METHYLEN	30.30	94	NJ
8. 629925	NONADECANE	31.93	260	NJ
9. 613592	NAPHTHALENE, 2-(PHENYLMETHYL	32.29	98	NJ
10. 7390810	OXIRANE, HEXADECYL-	33.60	240	NJ
11. 629970	DOCOSANE	34.34	330	NJ
12. 192972	BENZO[E]PYRENE	35.23	120	NJ
13. 7390810	OXIRANE, HEXADECYL-	36.73	680	NJ
14. 630068	HEXATRIACONTANE	37.74	170	NJ
15. 7390810	OXIRANE, HEXADECYL-	41.25	720	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

EE042

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03961

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22547

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 29 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	68	J
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
120-83-2	2,4-Dichlorophenol	470	U
91-20-3	Naphthalene	470	U
[illegible]-47-8	4-Chloroaniline	470	U
[illegible]	bis(2-Chloroethoxy)methane	470	U
[illegible]-68-3	Hexachlorobutadiene	470	U
[illegible]-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-[illegible]	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	110	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	470	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

EE042

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03961

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22547

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 29 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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
[illegible]	Phenanthrene	350	J
[illegible]	Anthracene	120	J
[illegible]	Carbazole	470	U
[illegible]	Di-n-butylphthalate	90	J
[illegible]	Fluoranthene	800	
[illegible]	Pyrene	930	
85-68-7	Butylbenzylphthalate	470	U
91-94-1	3,3'-Dichlorobenzidine	470	U
[illegible]	Benzo(a)anthracene	680	
[illegible]	Chrysene	720	
117-81-7	Bis(2-Ethylhexyl)phthalate	470	U
117-84-0	Di-n-octylphthalate	470	U
205-99-2	Benzo(b)fluoranthene	510	
207-08-9	Benzo(k)fluoranthene	520	
[illegible]	Benzo(a)pyrene	740	
193-39-5	Indeno(1,2,3-cd)pyrene	340	J
53-70-3	Dibenz(a,h)anthracene	140	J
191-24-2	Benzo(g,h,i)perylene	350	J

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X205
EE042

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03961

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22547

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 29 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 23 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	613127	ANTHRACENE, 2-METHYL-	24.96	160	NJ
2.	832713	PHENANTHRENE, 3-METHYL-	25.25	130	NJ
3.	612942	NAPHTHALENE, 2-PHENYL-	25.65	100	NJ
4.	3674666	PHENANTHRENE, 2,5-DIMETHYL-	26.38	180	NJ
5.	3674666	PHENANTHRENE, 2,5-DIMETHYL-	26.46	150	NJ
6.	206440	FLUORANTHENE	27.00	130	NJ
7.	243174	11H-BENZO[B]FLUORENE	27.95	99	NJ
8.	243174	11H-BENZO[B]FLUORENE	28.24	220	NJ
9.	238846	11H-BENZO[A]FLUORENE	28.41	120	NJ
10.	2381217	PYRENE, 1-METHYL-	28.52	160	NJ
11.	2381217	PYRENE, 1-METHYL-	28.76	94	NJ
12.	2381217	PYRENE, 1-METHYL-	28.84	100	NJ
13.	1705846	TRIPHENYLENE, 2-METHYL-	31.73	150	NJ
14.	0	10-METHYLNONADECANE	31.92	100	NJ
15.	1705857	CHRYSENE, 6-METHYL-	32.19	97	NJ
16.	30689782	(R)-(-)-(Z)-14-METHYL-8-HEXA	33.60	190	NJ
17.	7098228	TETRATETRACONTANE	34.35	770	NJ
18.	50328	BENZO[A]PYRENE	34.52	280	NJ
19.	207089	BENZO[K]FLUORANTHENE	35.25	500	NJ
20.	7390810	OXIRANE, HEXADECYL-	36.73	510	NJ
21.	14167590	TETRATRIACONTANE	37.74	460	NJ
22.	6900921	LYCOPODAN-5-ONE, 12-HYDROXY-	38.00	230	NJ
23.	26537053	ETHER, METHYL 1-TETRADECENYL	41.24	530	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X206

EE043

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03962

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22548

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 51 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	680	U
108-95-2	Phenol	680	U
111-44-4	bis(2-Chloroethyl)Ether	680	U
95-57-8	2-Chlorophenol	680	U
95-48-7	2-Methylphenol	680	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	680	U
98-86-2	Acetophenone	80	J
106-44-5	4-Methylphenol	680	U
621-64-7	N-Nitroso-di-n-propylamine	680	U
67-72-1	Hexachloroethane	680	U
98-95-3	Nitrobenzene	680	U
78-59-1	Isophorone	680	U
88-75-5	2-Nitrophenol	680	U
105-67-9	2,4-Dimethylphenol	680	U
120-83-2	2,4-Dichlorophenol	680	U
91-20-3	Naphthalene	100	J
106-47-8	4-Chloroaniline	680	U
111-91-1	bis(2-Chloroethoxy)methane	680	U
87-68-3	Hexachlorobutadiene	680	U
105-60-2	Caprolactam	680	U
59-50-7	4-Chloro-3-methylphenol	680	U
91-57-6	2-Methylnaphthalene	680	U
77-47-4	Hexachlorocyclopentadiene	680	U
88-06-2	2,4,6-Trichlorophenol	680	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	680	U
91-58-7	2-Chloronaphthalene	680	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	680	U
606-20-2	2,6-Dinitrotoluene	680	U
208-96-8	Acenaphthylene	680	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	130	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X206

EE043

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03962

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22548

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 51 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	100	J
121-14-2	2,4-Dinitrotoluene	680	U
84-66-2	Diethylphthalate	680	U
86-73-7	Fluorene	170	J
7005-72-3	4-Chlorophenyl-phenylether	680	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	680	U
101-55-3	4-Bromophenyl-phenylether	680	U
118-74-1	Hexachlorobenzene	680	U
1912-24-9	Atrazine	680	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	290	J
86-74-8	Carbazole	150	J
84-74-2	Di-n-butylphthalate	680	U
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	680	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo[a]anthracene	690	
218-01-9	Chrysene	720	
117-81-7	bis(2-Ethylhexyl)phthalate	680	U
117-84-0	Di-n-octylphthalate	680	U
205-99-2	Benzo[b]fluoranthene	550	J
207-08-9	Benzo[k]fluoranthene	510	J
50-32-8	Benzo[a]pyrene	620	J
193-39-5	Indeno[1,2,3-cd]pyrene	270	J
53-70-3	Dibenz[a,h]anthracene	680	U
191-24-2	Benzo[g,h,i]perylene	260	J

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X206

EE043

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03962

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22548

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 51 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 53562860	BUTANOIC ACID, 3-HYDROXY-, M	6.74	350	NJ
2. 693652	PENTANE, 1,1'-OXYBIS-	9.82	600	NJ
3. 613127	ANTHRACENE, 2-METHYL-	24.88	140	NJ
4. 57103	HEXADECANOIC ACID	24.98	420	NJ
5. 203645	4H-CYCLOPENTA[DEF]PHENANTHRE	25.19	280	NJ
6. 243174	11H-BENZO[B]FLUORENE	28.24	280	NJ
7. 630079	PENTATRIACONTANE	30.05	440	NJ
8. 1599673	1-DOCOSENE	30.90	140	NJ
9. 7390810	OXIRANE, HEXADECYL-	31.32	180	NJ
10. 630079	PENTATRIACONTANE	31.93	1200	NJ
11. 7715448	2(1H)-PHENANTHRENONE, 3,4,4A	32.02	710	NJ
12. 613592	NAPHTHALENE, 2-(PHENYLMETHYL	32.29	570	NJ
13. 6624799	1-DOTRIACONTANOL	33.01	350	NJ
14. 638664	OCTADECANAL	33.61	2000	NJ
15. 630035	NONACOSANE	34.37	3500	NJ
16. 638664	OCTADECANAL	35.03	360	NJ
17. 192972	BENZO[E]PYRENE	35.24	360	NJ
18. 52783434	NONADECANOL	35.85	420	NJ
19. 0	1-HEXACOSANAL	36.78	6800	NJ
20. 504574	10-NONADECANONE	37.61	270	NJ
21. 630079	PENTATRIACONTANE	37.76	2000	NJ
22. 629969	1-EICOSANOL	37.96	420	NJ
23. 638664	OCTADECANAL	38.79	670	NJ
24. 7390810	OXIRANE, HEXADECYL-	41.34	7300	NJ
25. 7098228	TETRATETRACONTANE	42.67	300	NJ
26. 28580430	1H-CYCLOPROP[E]AZULENE, DECA	45.02	190	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X207

EE044

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03963

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22549

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 20 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	420	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X207
EE044

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03963

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22549

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 20 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo[a]anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo[b]fluoranthene	420	U
207-08-9	Benzo[k]fluoranthene	420	U
50-32-8	Benzo[a]pyrene	420	U
193-39-5	Indeno[1,2,3-cd]pyrene	420	U
53-70-3	Dibenz[a,h]anthracene	420	U
191-24-2	Benzo[g,h,i]perylene	420	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X207
EE044

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03963

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22549

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 20 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	19781863	8-HEXADECYNE	25.68	530	NJ
2.	28624239	.DELTA.-SELINENE	27.88	110	NJ
3.	489407	1H-CYCLOPROP[E]AZULENE, 1A,2	27.95	150	NJ
4.	3691121	AZULENE, 1,2,3,4,5,6,7,8-OCT	28.70	250	NJ
5.	4677901	CYCLOPROPA[D]NAPHTHALEN-2(4A	29.77	370	NJ
6.	4126787	CYCLOHEPTANE, METHYL-	30.04	380	NJ
7.	3891983	DODECANE, 2,6,10-TRIMETHYL-	31.93	270	NJ
8.	14167590	TETRATRIACONTANE	34.36	110	NJ
9.	17408661	2(1H)-NAPHTHALENONE, 4A,5,6,	34.61	610	NJ
10.	2765119	PENTADECANAL-	36.74	96	NJ
11.	7390810	OXIRANE, HEXADECYL-	41.25	150	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

EE045

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03964

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22550

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	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	990	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	990	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	990	U
83-32-9	Acenaphthene	400	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X201

EE045

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03964

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22550

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990	U
100-02-7	4-Nitrophenol	990	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	990	U
534-52-1	4,6-Dinitro-2-methylphenol	990	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	990	U
85-01-8	Phenanthrene	170	J
120-12-7	Anthracene	44	J
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	340	J
129-00-0	Pyrene	320	J
85-68-7	Butylbenzylphthalate	44	J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo[a]anthracene	180	J
218-01-9	Chrysene	200	J
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo[b]fluoranthene	150	J
207-08-9	Benzo[k]fluoranthene	140	J
50-32-8	Benzo[a]pyrene	170	J
193-39-5	Indeno[1,2,3-cd]pyrene	83	J
53-70-3	Dibenz[a,h]anthracene	400	U
191-24-2	Benzo[g,h,i]perylene	79	J

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X201
EE045

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03964

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22550

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 16 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/13/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 74663915	CYCLOPROPANE, 1-HEPTYL-2-MET	19.18	99	NJ
2. 3913028	1-OCTANOL, 2-BUTYL-	34.36	110	NJ
3. 192972	BENZO[E]PYRENE	35.25	110	NJ
4. 10486198	TRIDECANAL	36.74	120	NJ
5. 52078565	11-TRICOSENE	38.03	110	NJ
6. 7390810	OXIRANE, HEXADECYL-	41.25	140	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X202

EE046

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03965

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22554

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 20 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	420	U
98-86-2	Acetophenone	43	J
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	420	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X202

EE046

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03965

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22554

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 20 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	290	J
120-12-7	Anthracene	100	J
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	530	
129-00-0	Pyrene	550	
85-68-7	Butylbenzylphthalate	55	J
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	270	J
218-01-9	Chrysene	310	J
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	230	J
207-08-9	Benzo(k)fluoranthene	200	J
50-32-8	Benzo(a)pyrene	270	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenz(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	140	J

1G

EPA SAMPLE NO.
X202

EE046

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03965

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22554

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 20 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	779022	ANTHRACENE, 9-METHYL-	24.97	91	NJ
2.	203645	4H-CYCLOPENTA[DEF]PHENANTHRE	25.19	110	NJ
3.	243174	11H-BENZO[B]FLUORENE	28.23	100	NJ
4.	7320378	OXIRANE, TETRADECYL-	33.60	190	NJ
5.	192972	BENZO[E]PYRENE	35.23	200	NJ
6.	124254	TETRADECANAL	36.71	170	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X 101

EE047

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22555

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

EE047

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22555

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	53	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	95	J
129-00-0	Pyrene	76	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo[a]anthracene	410	U
218-01-9	Chrysene	55	J
117-81-7	bis(2-Ethylhexyl)phthalate	41	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo[b]fluoranthene	47	J
207-08-9	Benzo[k]fluoranthene	410	U
50-32-8	Benzo[a]pyrene	41	J
193-39-5	Indeno[1,2,3-cd]pyrene	410	U
53-70-3	Dibenz[a,h]anthracene	410	U
191-24-2	Benzo[g,h,i]perylene	410	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X101

EE047

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22555

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 23 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1487496	BUTANOIC ACID, 3-HYDROXY-, M	6.72	380	NJ
2.	74663868	CYCLOPROPANE, 1-ETHYL-2-HEPT	19.18	83	NJ
3.	2437561	1-TRIDECENE	21.99	85	NJ
4.	1731868	UNDECANOIC ACID, METHYL ESTE	23.10	99	NJ
5.	1731880	TRIDECANOIC ACID, METHYL EST	23.21	120	NJ
6.	1120258	9-HEXADECENOIC ACID, METHYL	24.44	190	NJ
7.	1120258	9-HEXADECENOIC ACID, METHYL	24.54	400	NJ
8.	112390	HEXADECANOIC ACID, METHYL ES	24.63	250	NJ
9.	2733882	15-TETRACOSENOIC ACID, METHY	24.89	120	NJ
10.	57103	HEXADECANOIC ACID	24.98	160	NJ
11.	118467	2-NAPHTHALENOL, 8-AMINO-	25.10	120	NJ
12.	112630	9,12-OCTADECADIENOIC ACID (Z	26.44	200	NJ
13.	4764721	15-OCTADECENOIC ACID, METHYL	26.48	170	NJ
14.	13481953	10-OCTADECENOIC ACID, METHYL	26.53	190	NJ
15.	3386332	OCTADECANE, 1-CHLORO-	30.04	260	NJ
16.	7390810	OXIRANE, HEXADECYL-	31.31	230	NJ
17.	629969	1-EICOSANOL	31.94	1500	NJ
18.	7098228	TETRATETRACONTANE	33.03	84	NJ
19.	0	1-HEXACOSANAL	33.60	500	NJ
20.	629947	HENEICOSANE	34.33	170	NJ
21.	7390810	OXIRANE, HEXADECYL-	36.73	450	NJ
22.	629970	DOCOSANE	37.72	110	NJ
23.	2765119	PENTADECANAL-	41.23	260	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X101

EE047RE

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966RE

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22570

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	58	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	95	J
129-00-0	Pyrene	77	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo[a]anthracene	410	U
218-01-9	Chrysene	60	J
117-81-7	bis(2-Ethylhexyl)phthalate	41	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo[b]fluoranthene	410	U
207-08-9	Benzo[k]fluoranthene	410	U
50-32-8	Benzo[a]pyrene	410	U
193-39-5	Indeno[1,2,3-cd]pyrene	410	U
53-70-3	Dibenz[a,h]anthracene	410	U
191-24-2	Benzo[g,h,i]perylene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

EE047RE

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966RE

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22570

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	410	U
98-86-2	Acetophenone	68	J
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	81	J
106-47-8	4-Chloroaniline	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X101

EE047RE

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22570

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1487496	BUTANOIC ACID, 3-HYDROXY-, M	6.79	98	NJ
2. 122781	BENZENEACETALDEHYDE	12.05	150	NJ
3. 74663915	CYCLOPROPANE, 1-HEPTYL-2-MET	19.21	130	NJ
4. 1731868	UNDECANOIC ACID, METHYL ESTE	23.24	110	NJ
5. 544638	TETRADECANOIC ACID	23.51	100	NJ
6. 4727188	CYCLOPENTADECANONE, 2-HYDROX	24.47	110	NJ
7. 56875673	7-HEXADECENOIC ACID, METHYL	24.57	120	NJ
8. 112390	HEXADECANOIC ACID, METHYL ES	24.66	120	NJ
9. 41977348	CYCLOPROPANE, 1-BUTYL-1-METH	24.85	160	NJ
10. 0	TRANS-2-TRIDECENAL	24.94	320	NJ
11. 57103	HEXADECANOIC ACID	25.01	350	NJ
12. 5129646	DECANOIC ACID, 8-METHYL-, ME	25.13	110	NJ
13. 19047859	PHOSPHONIC ACID, DIOCTADECYL	25.48	110	NJ
14. 26186005	1-HEPTADECYNE	26.47	92	NJ
15. 0	TRANS-2-TRIDECENAL	26.56	99	NJ
16. 18733578	SILANE, TRICHLOROEICOSYL-	26.91	160	NJ
17. 4536305	ETHANOL, 2-(DODECYLOXY)-	30.08	260	NJ
18. 7390810	OXIRANE, HEXADECYL-	31.36	230	NJ
19. 629969	1-EICOSANOL	31.98	1300	NJ
20. 4536305	ETHANOL, 2-(DODECYLOXY)-	33.08	150	NJ
21. 0	1-HEXACOSANAL	33.65	1300	NJ
22. 544854	DOTRIACONTANE	34.40	480	NJ
23. 112925	1-OCTADECANOL	34.48	180	NJ
24. 7390810	OXIRANE, HEXADECYL-	35.09	110	NJ
25. 7390810	OXIRANE, HEXADECYL-	36.81	1200	NJ
26. 630068	HEXATRIACONTANE	37.82	350	NJ
27. 930029	OCTADECANE, 1-(ETHENYLOXY)-	38.24	290	NJ
28. 0	1-PENTANOL, 4-METHYL-2-METHY	38.84	85	NJ
29. 2765119	PENTADECANAL-	41.35	820	NJ
30. 2432895	DECANEDIOIC ACID, DIDECYL ES	42.77	140	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

EE048

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22556

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	62	J
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X102

EE048

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22556

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 23 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1487496	BUTANOIC ACID, 3-HYDROXY-, M	6.72	380	NJ
2. 122781	BENZENEACETALDEHYDE	12.03	95	NJ
3. 98884	BENZOYL CHLORIDE	14.38	290	NJ
4. 1731868	UNDECANOIC ACID, METHYL ESTE	23.10	83	NJ
5. 124107	TETRADECANOIC ACID, METHYL E	23.21	97	NJ
6. 1120258	9-HEXADECENOIC ACID, METHYL	24.44	210	NJ
7. 1120258	9-HEXADECENOIC ACID, METHYL	24.54	510	NJ
8. 112390	HEXADECANOIC ACID, METHYL ES	24.63	240	NJ
9. 36653824	1-HEXADECANOL	24.81	180	NJ
10. 2733882	15-TETRACOSENOIC ACID, METHY	24.92	620	NJ
11. 57103	HEXADECANOIC ACID	24.99	450	NJ
12. 5129635	NONANOIC ACID, 7-METHYL-, ME	25.10	130	NJ
13. 37050058	3,4-OCTADIENE, 7-METHYL-	26.44	140	NJ
14. 36653824	1-HEXADECANOL	26.48	170	NJ
15. 13481953	10-OCTADECENOIC ACID, METHYL	26.53	160	NJ
16. 463183	1-FLUORONONANE	26.83	110	NJ
17. 3404771	1-HEXENE, 3,3-DIMETHYL-	26.87	100	NJ
18. 629629	PENTADECANE	30.04	220	NJ
19. 638664	OCTADECANAL	31.31	160	NJ
20. 40710427	1-HENTETRACONTANOL	31.93	760	NJ
21. 0	1-HEXACOSANAL	33.60	140	NJ
22. 7390810	OXIRANE, HEXADECYL-	36.72	130	NJ
23. 2765119	PENTADECANAL-	41.22	84	NJ
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X102

EE048

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22556

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	51	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	84	J
129-00-0	Pyrene	74	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo[a]anthracene	410	U
218-01-9	Chrysene	48	J
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo[b]fluoranthene	410	U
207-08-9	Benzo[k]fluoranthene	410	U
50-32-8	Benzo[a]pyrene	410	U
193-39-5	Indeno[1,2,3-cd]pyrene	410	U
53-70-3	Dibenz[a,h]anthracene	410	U
191-24-2	Benzo[g,h,i]perylene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

x102

EE048MS

Lab Name: ACCURA ANALYTICAL LABORAT . Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22557

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	2000	
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	1900	
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	1500	
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
[illegible]	2,4-Dichlorophenol	410	U
[illegible]	Naphthalene	410	U
[illegible]	4-Chloroaniline	410	U
[illegible]	bis(2-Chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
[illegible]	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	2100	
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
[illegible]	2,4,6-Trichlorophenol	410	U
[illegible]	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	1400	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X102
EE048MS

Lab Name: ACCURA ANALYTICAL LABORAT . Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22557

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	2500	
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	1500	
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	2500	
85-01-8	Phenanthrene	85	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	46	J
[illegible]	Chrysene	73	J
117-81-7	Bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

EE048MSD

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22558

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	2100	
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	2000	
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	410	U
98-86-2	Acetophenone	50	J
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	1600	
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	2200	
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	1500	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X102
EE048MSD

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22558

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	2800	
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	1600	
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	2600	
85-01-8	Phenanthrene	54	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	97	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo[a]anthracene	410	U
218-01-9	Chrysene	57	J
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo[b]fluoranthene	410	U
207-08-9	Benzo[k]fluoranthene	410	U
50-32-8	Benzo[a]pyrene	410	U
193-39-5	Indeno[1,2,3-cd]pyrene	410	U
53-70-3	Dibenz[a,h]anthracene	410	U
191-24-2	Benzo[g,h,i]perylene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

EE048RE

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967RE

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22571

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	48	J
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	410	U
98-86-2	Acetophenone	42	J
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X102

EE048RE

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967RE

Sample wt/vol: 30.0(g/mL) G Lab File ID: A22571

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

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	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	57	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	98	J
129-00-0	Pyrene	80	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo[a]anthracene	410	U
218-01-9	Chrysene	60	J
117-81-7	bis(2-Ethylhexyl)phthalate	84	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo[b]fluoranthene	410	U
207-08-9	Benzo[k]fluoranthene	410	U
50-32-8	Benzo[a]pyrene	410	U
193-39-5	Indeno[1,2,3-cd]pyrene	410	U
53-70-3	Dibenz[a,h]anthracene	410	U
191-24-2	Benzo[g,h,i]perylene	410	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X102

EE048RE

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A22571

Level: (low/med) LOW Date Received: 11/30/00

% Moisture: 19 Decanted: (Y/N) N Date Extracted:12/08/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 24 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 122781	BENZENEACETALDEHYDE	12.05	250	NJ
2. 112414	1-DODECENE	19.21	200	NJ
3. 13126675	DECANOIC ACID, SILVER(1+) SA	22.35	150	NJ
4. 5540318	.ALPHA.-D-GALACTOPYRANOSIDE,	22.76	83	NJ
5. 544638	TETRADECANOIC ACID	23.51	230	NJ
6. 74685362	OXACYCLOTETRADECANE-2,11-DIO	24.85	350	NJ
7. 106025	OXACYCLOHEXADECAN-2-ONE	24.94	260	NJ
8. 57103	HEXADECANOIC ACID	25.02	500	NJ
9. 18733578	SILANE, TRICHLOROEICOSYL-	25.49	190	NJ
10. 930029	OCTADECANE, 1-(ETHENYLOXY)-	26.87	150	NJ
11. 112801	OLEIC ACID	26.91	220	NJ
12. 6971400	17-PENTATRIACONTENE	30.07	350	NJ
13. 7390810	OXIRANE, HEXADECYL-	31.36	260	NJ
14. 629969	1-EICOSANOL	31.98	1300	NJ
15. 4536305	ETHANOL, 2-(DODECYLOXY)-	33.08	140	NJ
16. 0	1-HEXACOSANAL	33.65	940	NJ
17. 629970	DOCOSANE	34.41	430	NJ
18. 2855198	OXIRANE, DECYL-	34.50	140	NJ
19. 638664	OCTADECANAL	35.09	91	NJ
20. 19890847	LONGIFOLENALDEHYDE	36.04	2600	NJ
21. 7390810	OXIRANE, HEXADECYL-	36.81	850	NJ
22. 638686	TRIACONTANE	37.80	260	NJ
23. 57289266	1-DODECANOL, 2-METHYL-, (S)-	38.25	120	NJ
24. 7390810	OXIRANE, HEXADECYL-	41.35	610	NJ
25.				
26.				
27.				
28.				
29.				
30.				

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

GC Column(1):RTX-CLP ID:0.32(mm) GC Column(2):RTX-CLP2 ID:0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	145	143	137	164*			
02	EE03T	139	139	139	167*			
03	EE040	141	154*	110	141			
04	EE041	112	135	112	135			
05	EE042	117	128	102	106			
06	EE043	129	143	129	136			
07	EE044	120	133	99	111			
08	EE045	152*	165*	139	152*			
09	EE046	145	145	98	114			
10	EE047	160*	160*	148	148			
11	EE048	146	146	134	146			
12	EE048MS	146	146	146	159*			
13	EE048MSD	159*	159*	195*	183*			
14	EE03LDL	16*	35	78	3514*			
15	EE03J	49	51	36	1940*			
16	EE03K	42	42	8*	1899*			
17	EE03L	20*	58	3784*	11538*			
18	EE03M	77	97	256*	154*			
19								
20								
21								
22								
23								
24								
25								
26								
27								
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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix Spike - EPA Sample No.: EE048

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	21	0.00	17	81	46-127
Heptachlor	21	0.00	13	62	35-130
Aldrin	21	0.00	17	81	34-132
Dieldrin	41	0.00	34	83	31-134
Endrin	41	0.00	40	98	42-139
4,4'-DDT	41	0.00	35	85	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	21	17	81	0	50	46-127
Heptachlor	21	14	67	8	31	35-130
Aldrin	21	17	81	0	43	34-132
Dieldrin	41	36	88	6	38	31-134
Endrin	41	39	95	3	45	42-139
4,4'-DDT	41	41	100	16	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: 0 out of 12 outside limits

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Lab Sample ID: QPS1207001 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(Type) PFEX

Sulfur Cleanup (Y/N) N Date Extracted: 12/07/00

Date Analyzed (1): 12/10/00 Date Analyzed (2): 12/10/00

Time Analyzed (1): 1824 Time Analyzed (2): 1824

Instrument ID (1): INSTRUMEN Instrument ID (2): INSTRUMEN

GC Column (1): RTX-CLP ID: 0.32(mm) GC Column (2): RTX-CLP2 ID: 0.32(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	EE03T	AC03958	12/10/00	12/10/00
02	EE040	AC03959	12/10/00	12/10/00
03	EE041	AC03960	12/10/00	12/10/00
04	EE042	AC03961	12/10/00	12/10/00
05	EE043	AC03962	12/10/00	12/10/00
06	EE044	AC03963	12/10/00	12/10/00
07	EE045	AC03964	12/11/00	12/11/00
08	EE046	AC03965	12/11/00	12/11/00
09	EE047	AC03966	12/11/00	12/11/00
10	EE048	AC03967	12/11/00	12/11/00
11	EE048MS	MS-AC03967	12/11/00	12/11/00
12	EE048MSD	MSD-AC03967	12/11/00	12/11/00
13	EE03LDL	AC03956DL	12/11/00	12/11/00
14	EE03J	AC03954	12/14/00	12/14/00
15	EE03K	AC03955	12/14/00	12/14/00
16	EE03L	AC03956	12/14/00	12/14/00
17	EE03M	AC03957	12/14/00	12/14/00
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST OLM04.2

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X104

EE03J

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03954

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000074

% Moisture: 0 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 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	3.6	P
72-55-9	4,4'-DDE	14	P
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	6.6	
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	5.5	P
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	17	P
7421-93-4	Endrin aldehyde	19	P
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

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

EE03K

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03955

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000075

% Moisture: 16 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	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	3.9	U
72-55-9	4,4'-DDE	9.3	P
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	4.6	P
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	6.5	P
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	19	
7421-93-4	Endrin aldehyde	4.3	P
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X103

EE03L

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000076

% Moisture: 10 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	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	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	25	P
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	18	P
1031-07-8	Endosulfan sulfate	50	P
50-29-3	4,4'-DDT	27	P
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	78	
7421-93-4	Endrin aldehyde	110	P
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

EE03LDL

Lab Name: ACCURA ANALYTICAL LABORAT . Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03956DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000047

% Moisture: 10 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/11/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.4	U
319-85-7	beta-BHC	9.4	U
319-86-8	delta-BHC	9.4	U
58-89-9	gamma-BHC (Lindane)	9.4	U
76-44-8	Heptachlor	9.4	U
309-00-2	Aldrin	9.4	U
1024-57-3	Heptachlor epoxide	9.4	U
959-98-8	Endosulfan I	9.4	U
60-57-1	Dieldrin	66	DP
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	67	D
72-43-5	Methoxychlor	94	U
53494-70-5	Endrin ketone	100	DP
7421-93-4	Endrin aldehyde	210	DP
5103-71-9	alpha-Chlordane	9.4	U
5103-74-2	gamma-Chlordane	84	DP
8001-35-2	Toxaphene	940	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

EE03M

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03957

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000077

% Moisture: 15 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/14/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	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	4.8	P
72-55-9	4,4'-DDE	5.4	P
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	29	
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	8.0	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	7.8	P
7421-93-4	Endrin aldehyde	6.8	P
5103-71-9	alpha-Chlordane	7.5	
5103-74-2	gamma-Chlordane	5.2	P
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

EE03T

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03958

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000028

% Moisture: 8 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
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	18	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	4.3	
5103-74-2	gamma-Chlordane	4.5	
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	73	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	36	U
11096-82-5	Aroclor-1260	36	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

EE040

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03959

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000029

% Moisture: 15 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	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	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X204

EE041

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03960

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000030

% Moisture: 25 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	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	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	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	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X205

EE042

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03961

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000031

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	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	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X206

EE043

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03962

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000032

% Moisture: 51 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 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	67	U
11096-82-5	Aroclor-1260	67	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X207

EE044

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03963

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000033

% Moisture: 20 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	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	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	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	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

EE045

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03964

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000034

% Moisture: 16 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/11/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	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	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

EE046

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03965

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000037

% Moisture: 20 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/11/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	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	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	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	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

EE047

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03966

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000038

% Moisture: 18 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/11/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	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.
X102

EE048

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: AC03967

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000039

% Moisture: 19 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/11/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	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	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	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	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

EE048MS

Lab Name: ACCURA ANALYTICAL LABORAT . Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: MS-AC03967

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000040

% Moisture: 19 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/11/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	17	
76-44-8	Heptachlor	13	P
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	34	
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	40	
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	35	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	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	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

EE048MSD

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: MSD-AC03967

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000041

% Moisture: 19 Decanted: (Y/N) N Date Received: 11/30/00

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/11/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	17	
76-44-8	Heptachlor	14	P
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	36	
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	39	
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	41	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	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	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: ACCURA ANALYTICAL LABORAT Contract: 68W01001

Lab Code: ACCU Case No.: 28771 SAS No.: SDG No.: EE03J

Matrix: (soil/water) SOIL Lab Sample ID: QPS1207001

Sample wt/vol: 30.0(g/mL) G Lab File ID: D000027

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) PFEX Date Extracted: 12/07/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 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

DATE: January 16, 2001

TO: IEPA
1021 North Grand Avenue East
Springfield, IL 62702

Attn: Bob Casper

SITE NAME: ROCKFORD SAND & GRAVEL

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
28771	SENTINEL	14	MEE03J	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, ESAT

RECEIVED
JAN 19 2001
IEPA-BOL-FSRS

JAN 16 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/11/01

SUBJECT: Review of Data
Received for review on 12/18/00

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: Rockford Sand & Gravel (IL)

CASE NUMBER: 28771 SDG NUMBER: MEE03J

Number and Type of Samples: 14 (soil)

Sample Numbers: MEE03J-M, MEE03T, MEE040-8

Laboratory Sentinel Hrs. for Review: 8 +2

Following are our findings:

CC Cecilia Moore
Region 5 TPO
Mail Code SM-5J

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

Fourteen (14) soil samples, numbered MEE03J-M, MEE03T, MEE040-8, were collected on 11/27-29/2000. The lab received the samples on 11/30/2000. The cooler containing the samples was received at the laboratory at 6.5 degrees C. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM04.0/04.1 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 Spectometric procedure.

Errors were found and corrected on Forms I and III by this reviewer.

Reviewed by: Stephen Connet
Date: 1/11/2001

1. HOLDING TIME:

HOLDING TIME CRITERIA

---Inorganic---

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

No problems were found for this qualification.

2. CALIBRATIONS:

CALIBRATION CRITERIA

---Inorganic---

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85 00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems were found for this qualification.

3. BLANKS:

LABORATORY BLANKS CRITERIA

DC-284. The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration.
These hits are qualified "J".

Arsenic
MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

Mercury
MEE03J, MEE03M, MEE03T, MEE040, MEE041, MEE043, MEE045

Selenium
MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE046, MEE047, MEE048

DC-338 During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

---Inorganic---

Percent Recovery Limits	
Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-267: The following inorganic samples are associated with a matrix spike recovery which is high (>125%).
Hits are qualified "J".

Copper
MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

DC-268: The following inorganic samples are associated with a matrix spike recovery

which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

Cyanide
MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

DC-269: The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "R".

Manganese
MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

No problems were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

DC-256: The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) criteria.
All associated data are estimated "J".

Iron
MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

Zinc
MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

6. ICP ANALYSIS:

DC-295: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control The serial dilution result is greater than the sample result, indicating a potential negative interference. The data must be qualified using professional judgement.

Reviewed by: Stephen Connet
Date: 1/11/2001

All associated data are estimated "J".

Calcium

MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

Copper

MEE03J, MEE03K, MEE03L, MEE03M, MEE03T, MEE040, MEE041, MEE042, MEE043, MEE044, MEE045, MEE046, MEE047, MEE048

The following inorganic samples are associated with negative sample results whose absolute value is significantly greater than the CRDL, indicating a possible elevated detection limit.

Non-detects are qualified "R".

Beryllium

MEE03K

7. GFAA ANALYSIS:

No GFAA analyses were performed for this case.

8. SAMPLE RESULTS:

All data, except those qualified above, are acceptable.

Reviewed by: Stephen Connet
Date: 1/11/2001

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 the quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Reviewed by: Stephen Connet
Date: 1/11/2001

Analytical Results (Qualified Data)

Case # 28771	SDG MEE03J		
Site	ROCKFORD SAND & GRAVEL	Number of Soil Samples	14
Lab	SENTIN	Number of Water Samples	0
Reviewer	S CONNET		
Date	1/11/2001		

Sample Number	MEE03J		MEE03K		MEE03L		MEE03M		MEE03T	
Sampling Location	X104		X105		X103		X106		X107	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled	11/28/00		11/27/00		11/28/00		11/28/00		11/29/00	
Time Sampled	13 00		11 40		15 30		16 30		09 45	
%Solids	84 1		83 9		82 5		89 7		91 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	8080		6100		2720		2960		3430	
ANTIMONY	5 1	UJ	5 1	UJ	5 2	UJ	5 8	J	4 7	UJ
ARSENIC	4 1		10 1		6 1		2 5	J	2 8	J
BARIUM	260		709		152		333		36 8	
BERYLLIUM	0 83		0 050	R	0 050	U	0 050	U	0 040	U
CADMIUM	1 7		146		2 0		1 2		0 98	
CALCIUM	84100	J	37200	J	88600	J	61800	J	44300	J
CHROMIUM	30 5		1040		9 5		52 4		8 3	
COBALT	2 3		7 1		2 1		2 3		2 5	
COPPER	36 8	J	1350	J	46 1	J	189	J	12 2	J
IRON	11300	J	18400	J	32800	J	7640	J	6600	J
LEAD	76 9		1510		188		205		13 9	
MAGNESIUM	35600		10800		54100		27400		26600	
MANGANESE	634	J	384	J	366	J	281	J	222	J
MERCURY	0 14	J	1 2		0 060	U	0 13	J	0 060	J
NICKEL	16 1		110		10 1		48 0		8 5	
POTASSIUM	875		1640		557		440		451	
SELENIUM	1 2	J	1 3	J	1 1	J	1 7	J	1 1	J
SILVER	0 33	U	10 5		0 34	U	0 31	U	0 31	U
SODIUM	617		1920		779		1090		209	U
THALLIUM	0 88	U	0 88	U	0 90	U	0 82	U	0 81	U
VANADIUM	13 0		17 6		7 7		14 1		10 9	
ZINC	189	J	3020	J	750	J	1180	J	33 3	J
CYANIDE	0 80	J	6 5	J	0 18	J	0 17	J	0 090	UJ

Analytical Results (Qualified Data)

Case #. 28771	SDG · MEE03J
Site	ROCKFORD SAND & GRAVEL
Lab	SENTIN
Reviewer	S CONNET
Date	1/11/2001

Sample Number	MEE040		MEE041		MEE042		MEE043		MEE044	
Sampling Location	X203		X204		X205		X206		X207	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled	11/29/00		11/29/00		11/29/00		11/29/00		11/29/00	
Time Sampled	13 15		13 35		14 00		14 30		15 00	
%Solids	79 3		70 7		66 4		70 3		60 7	
Dilution Factor	1 0		1 0		1 0		1 0		1 0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5060		3900		12400		2510		4500	
ANTIMONY	5 4	UJ	6 1	UJ	6 5	UJ	6 1	UJ	7 1	UJ
ARSENIC	1 9	J	2 3	J	4 6	J	2 0	J	2 0	J
BARIUM	28 8		43 7		138		29 4		71 1	
BERYLLIUM	0 050	U	0 060	U	0 060	U	0 060	U	0 070	U
CADMIUM	0 10		0 23		1 3		0 65		0 26	
CALCIUM	33300	J	19200	J	13900	J	22400	J	54500	J
CHROMIUM	12 8		7 2		21 3		8 8		8 7	
COBALT	4 0		2 9		9 0		2 2		4 2	
COPPER	18 5	J	8 5	J	27 9	J	7 6	J	6 8	J
IRON	7600	J	6360	J	20100	J	4810	J	8800	J
LEAD	6 9		18 3		65 9		8 5		7 0	
MAGNESIUM	20100		9060		8650		10700		11200	
MANGANESE	79 2	J	140	J	293	J	122	J	334	J
MERCURY	0 060	J	0 11	J	2 3		0 090	J	0 080	U
NICKEL	11 5		6 0		21 0		5 3		9 0	
POTASSIUM	450		471		1220		334		622	
SELENIUM	1 2	J	1 0	J	1 2	J	0 68	J	1 3	J
SILVER	0 35	U	0 40	U	2 1		0 40	U	0 46	U
SODIUM	265		271	U	341		272	U	315	U
THALLIUM	0 93	U	1 0	U	1 1	U	1 1	U	1 2	U
VANADIUM	29 8		10 0		27 0		9 1		12 1	
ZINC	28 1	J	50 7	J	161	J	41 8	J	39 1	J
CYANIDE	0 10	UJ	0 11	UJ	0 12	UJ	0 11	UJ	0 13	UJ

Analytical Results (Qualified Data)

Case # 28771	SDG MEE03J
Site	ROCKFORD SAND & GRAVEL
Lab	SENTIN
Reviewer	S CONNET
Date	1/11/2001

Sample Number	MEE045		MEE046		MEE047		MEE048			
Sampling Location	X201		X202		X101		X102			
Matrix	Soil		Soil		Soil		Soil			
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled	11/29/00		11/29/00		11/29/00		11/29/00			
Time Sampled	15 40		15 40		15 50		15 50			
%Solids	76 0		80 4		82 5		82 5			
Dilution Factor	1 0		1 0		1 0		1 0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	2930		5810		4130		4750			
ANTIMONY	5 7	UJ	5 3	UJ	5 2	UJ	5 2	UJ		
ARSENIC	2 1	J	2 4	J	3 2	J	3 0	J		
BARIUM	28 1		42 3		78 1		80 0			
BERYLLIUM	0 050	U	0 050	U	0 050	U	0 050	U		
CADMIUM	0 21		0 40		0 24		0 24			
CALCIUM	87700	J	29900	J	2520	J	2310	J		
CHROMIUM	4 7		22 5		6 1		6 8			
COBALT	0 53	U	2 8		4 5		4 7			
COPPER	7 2	J	10 1	J	5 9	J	6 0	J		
IRON	4860	J	7610	J	6510	J	6730	J		
LEAD	15 5		74 7		19 8		20 4			
MAGNESIUM	45700		17600		1150		1210			
MANGANESE	185	J	107	J	468	J	457	J		
MERCURY	0 090	J	0 060	U	0 060	U	0 060	U		
NICKEL	4 7		7 9		4 9		5 7			
POTASSIUM	347		622		472		543			
SELENIUM	0 53	U	0 77	J	1 1	J	1 3	J		
SILVER	0 37	U	0 35	U	0 34	U	0 34	U		
SODIUM	252	U	238	U	232	U	232	U		
THALLIUM	0 97	U	0 92	U	0 90	U	0 90	U		
VANADIUM	8 4		14 5		11 1		12 6			
ZINC	26 9	J	57 5	J	37 3	J	38 7	J		
CYANIDE	0 10	UJ	0 10	UJ	0 10	UJ	0 10	UJ		

EPA Contract Laboratory Program
Inorganic Traffic Report

Case No. 28771
DAS No.
SDG No. MEE03J

L

Date Shipped: 11/29/00
Carrier Name: Fed Ex
Airbill: 4684286596
Shipped to:
Sentinel Inc
2800 Bob Wallace Avenue
Suite L3
Huntsville AL 35805
(205) 534-9800

Date Received/Received by: 11/30/00 K. Hayes
Lab Contract No. 68W00085 Unit Price: 95.00

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature) Mark W 11/29/00

Relinquished By.	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MEE03J	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-120787 (Ice Only) (1)	X104	11/28/2000 13 00	EE03J	
MEE03K	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-120791 (Ice Only) (1)	X105	11/27/2000 11 40	EE03K	
MEE03L	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-120795 (Ice Only) (1)	X103	11/28/2000 15 30	EE03L	
MEE03M	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-120800 (Ice Only) (1)	X106	11/28/2000 16 30	EE03M	
MEE03T	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-120196 (Ice Only) (1)	X107	11/29/2000 09 45	EE03T	
MEE040	Sediment	L/G	CN (21), TM (21)	5-55000 (Ice Only) (1)	X203	11/29/2000 13 15	EE040	
MEE041	Sediment	L/G	CN (21), TM (21)	5-55004 (Ice Only) (1)	X204	11/29/2000 13 35	EE041	
MEE042	Sediment	L/G	CN (21), TM (21)	5-55008 (Ice Only) (1)	X205	11/29/2000 14 00	EE042	
MEE043	Sediment	L/G	CN (21), TM (21)	5-55012 (Ice Only) (1)	X206	11/29/2000 14 30	EE043	
MEE044	Sediment	L/G	CN (21), TM (21)	5-55016 (Ice Only) (1)	X207	11/29/2000 15 00	EE044	
MEE045	Sediment	L/G	CN (21), TM (21)	5-55020 (Ice Only) (1)	X201	11/29/2000 15 40	EE045	
MEE046	Sediment	L/G	CN (21), TM (21)	5-55024 (Ice Only) (1)	X202	11/29/2000 15 40	EE046	
MEE047	Soil/Sediment	L/G	CN (21), TM (21)	5-55060 (Ice Only) (1)	X101	11/29/2000 15 50	EE047	
MEE048	Soil/Sediment	L/G	CN (21), TM (21)	5-55064 (Ice Only) (1)	X102	11/29/2000 15 50	EE048	

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC: X103	Additional Sampler Signature(s):	Chain of Custody Seal Number 20040	Cooler Temperature Upon Receipt: 6.5°C

Analysis Key Below: Concentration: L = Low M = Low/Medium H = High Type/Designate: Composite = C Grab = G
CN=Cyanide,TM=CLP TAL Total Metals

Custody Seal Intact? Yes
Shipment Iced? Yes

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0009

F2V4 0

QC EXCEPTIO UMMARY REPORT

CASE\SAS#: 28771 SITE: ROCKFORD SAND & GRAVEL MATRIX: SOIL WATER SAMPLE SPK: —

DATA SET: MEE03J LAB: SENTINEL CONC: ~~MEE03L~~ LOW w 1-11-07 WATER SAMPLE DUP: —

LAB QC # w 1-11-07 ~~46~~ REVIEWED BY: G. CONNET SOIL SAMPLE SPK: MEE03L

DATE: 1-11-07 SOIL SAMPLE DUP: MEE03L

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	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	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																				
ANTIMONY								49.8												
ARSENIC			3.2																	
BARIUM																				
BERYLLIUM																				
CADMIUM																				
CALCIUM													11.0							
CHROMIUM																				
COBALT																				
COPPER								162.9					14.2							
IRON									80.9											
LEAD																				
MAGNESIUM																				
MANGANESE								7.3												
MERCURY			0.1																	
NICKEL																				
POTASSIUM																				
SELENIUM			2.6			0.6														
SILVER																				
SODIUM																				
THALLIUM																				
TIN																				
VANADIUM																				
ZINC									44.4											
CYANIDE								30.7												

Ck: M, T, 40, 41, 42, 43, 44, 45, 46, 47, 48 Se: J, K, L, M, T, 40, 41, 42, 43, 44, 46, 47, 48

Hg: J, M, T, 40, 41, 42, 45

DEC 1 8 2000

SDG NARRATIVE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEEØ3J

SOW No.: ILM04.1

SAMPLE RECEIPT: Temperature Blank: PRESENT X ABSENT ____
If Absent, a non-invasive laser measurement is taken using a sample.
Cooler temperature(s) recorded via laser measurement were: 6.5°C
Refer to Record of Communication regarding mislabeled EPA Sample numbers for samples:
EEØ4Ø, MEEØ41

Refer to Record of Communication regarding misidentified tag numbers for samples:
MEEØ4Ø-48

Refer to Record of Communication regarding sample preservation anomalies for samples:

QC Specified. Yes X No ____ If no, chose: ____

ANALYSIS: The following analyte(s) were estimated due to possible matrix interferences:
Ca, Cu

DOCUMENT CONTROL: The following invalid defects resulted due to CCS program anomalies:
Initial Assessment: 1008 - SOW missing/invalid (Caused by ILM04.1 SOW)
Full Assessment: None

OTHER:

Signature:

Name & Title: BMcWilson QA Officer Date: 12/14/00

2

U.S. EPA - CLP

DEC 1 8 2000

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

SOW No.: ILM04.1

EPA SAMPLE NO.	Lab Sample ID.
MEE03J	35775S
MEE03K	35776S
MEE03L	35777S
MEE03LD	35777S2
MEE03LS	35777MS
MEE03M	35778S
MEE03T	35779S
MEE040	35780S
MEE041	35781S
MEE042	35782S
MEE043	35783S
MEE044	35784S
MEE045	35785S
MEE046	35786S
MEE047	35787S
MEE048	35788S

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

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 the Manager's designee, as verified by the following signature.

Signature:

N : BAtilgwe Title: QMOfficer Date: 12/14/00

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE03J

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35775S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 84.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8080			P
7440-36-0	Antimony	5.1	U	N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	260		*	P
7440-41-7	Beryllium	0.83	B		P
7440-43-9	Cadmium	1.7			P
7440-70-2	Calcium	84100		E	P
7440-47-3	Chromium	30.5		*	P
7440-48-4	Cobalt	2.3	B		P
7440-50-8	Copper	36.8		NE	P
7439-89-6	Iron	11300		*	P
7439-92-1	Lead	76.9			P
7439-95-4	Magnesium	35600			P
7439-96-5	Manganese	634		N	P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	16.1			P
7440-09-7	Potassium	875	B		P
7782-49-2	Selenium	1.2			P
7440-22-4	Silver	0.33	U		P
7440-23-5	Sodium	617	B		P
7440-28-0	Thallium	0.88	U		P
7440-62-2	Vanadium	13.0			P
7440-66-6	Zinc	189		*	P
	Cyanide	0.80		N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE03K

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35776S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 83.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6100			P
7440-36-0	Antimony	5.1	U	N	P
7440-38-2	Arsenic	10.1			P
7440-39-3	Barium	709		*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	146			P
7440-70-2	Calcium	37200		E	P
7440-47-3	Chromium	1040		*	P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	1350		NE	P
7439-89-6	Iron	18400		*	P
7439-92-1	Lead	1510			P
7439-95-4	Magnesium	10800			P
7439-96-5	Manganese	384		N	P
7439-97-6	Mercury	1.2			CV
7440-02-0	Nickel	110			P
7440-09-7	Potassium	1640			P
7782-49-2	Selenium	1.3			P
7440-22-4	Silver	10.5			P
7440-23-5	Sodium	1920			P
7440-28-0	Thallium	0.88	U		P
7440-62-2	Vanadium	17.6			P
7440-66-6	Zinc	3020		*	P
	Cyanide	6.5		N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE03L

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35777S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 82.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2720			P
7440-36-0	Antimony	5.2	U	N	P
7440-38-2	Arsenic	6.1			P
7440-39-3	Barium	152		*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium	88600		E	P
7440-47-3	Chromium	9.5		*	P
7440-48-4	Cobalt	2.1	B		P
7440-50-8	Copper	46.1		NE	P
7439-89-6	Iron	32800		*	P
7439-92-1	Lead	188			P
7439-95-4	Magnesium	54100			P
7439-96-5	Manganese	366		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	10.1			P
7440-09-7	Potassium	557	B		P
7782-49-2	Selenium	1.1	B		P
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	779	B		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	7.7	B		P
7440-66-6	Zinc	750		*	P
	Cyanide	0.18	B	N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE03M

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35778S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 89.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2960			P
7440-36-0	Antimony	5.8	B	N	P
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	333		*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	61800		E	P
7440-47-3	Chromium	52.4		*	P
7440-48-4	Cobalt	2.3	B		P
7440-50-8	Copper	189		NE	P
7439-89-6	Iron	7640		*	P
7439-92-1	Lead	205			P
7439-95-4	Magnesium	27400			P
7439-96-5	Manganese	281		N	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	48.0			P
7440-09-7	Potassium	440	B		P
7782-49-2	Selenium	1.7			P
7440-22-4	Silver	0.31	U		P
7440-23-5	Sodium	1090	B		P
7440-28-0	Thallium	0.82	U		P
7440-62-2	Vanadium	14.1			P
7440-66-6	Zinc	1180		*	P
	Cyanide	0.17	B	N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE03T

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35779S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 91.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3430			P
7440-36-0	Antimony	4.7	U	N	P
7440-38-2	Arsenic	2.8			P
7440-39-3	Barium	36.8	B	*	P
7440-41-7	Beryllium	0.04	U		P
7440-43-9	Cadmium	0.98	B		P
7440-70-2	Calcium	44300		E	P
7440-47-3	Chromium	8.3		*	P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	12.2		NE	P
7439-89-6	Iron	6600		*	P
7439-92-1	Lead	13.9			P
7439-95-4	Magnesium	26600			P
7439-96-5	Manganese	222		N	P
7439-97-6	Mercury	0.06	B		CV
7440-02-0	Nickel	8.5	B		P
7440-09-7	Potassium	451	B		P
7782-49-2	Selenium	1.1			P
7440-22-4	Silver	0.31	U		P
7440-23-5	Sodium	209	U		P
7440-28-0	Thallium	0.81	U		P
7440-62-2	Vanadium	10.9	B		P
7440-66-6	Zinc	33.3		*	P
	Cyanide	0.09	U	N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE040

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35780S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 79.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5060			P
7440-36-0	Antimony	5.4	U	N	P
7440-38-2	Arsenic	1.9	B		P
7440-39-3	Barium	28.8	B	*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	0.10	B		P
7440-70-2	Calcium	33300		E	P
7440-47-3	Chromium	12.8		*	P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	18.5		NE	P
7439-89-6	Iron	7600		*	P
7439-92-1	Lead	6.9			P
7439-95-4	Magnesium	20100			P
7439-96-5	Manganese	79.2		N	P
7439-97-6	Mercury	0.06	B		CV
7440-02-0	Nickel	11.5			P
7440-09-7	Potassium	450	B		P
7782-49-2	Selenium	1.2	B		P
7440-22-4	Silver	0.35	U		P
7440-23-5	Sodium	265	B		P
7440-28-0	Thallium	0.93	U		P
7440-62-2	Vanadium	29.8			P
7440-66-6	Zinc	28.1		*	P
	Cyanide	0.10	U	N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE041

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35781S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 70.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3900			P
7440-36-0	Antimony	6.1	U	N	P
7440-38-2	Arsenic	2.3	B		P
7440-39-3	Barium	43.7	B	*	P
7440-41-7	Beryllium	0.06	U		P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	19200		E	P
7440-47-3	Chromium	7.2		*	P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	8.5		NE	P
7439-89-6	Iron	6360		*	P
7439-92-1	Lead	18.3			P
7439-95-4	Magnesium	9060			P
7439-96-5	Manganese	140		N	P
7439-97-6	Mercury	0.11	B		CV
7440-02-0	Nickel	6.0	B		P
7440-09-7	Potassium	471	B		P
7782-49-2	Selenium	1.0	B		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	271	U		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	10	B		P
7440-66-6	Zinc	50.7		*	P
	Cyanide	0.11	U	N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE042

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35782S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 66.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12400			P
7440-36-0	Antimony	6.5	U	N	P
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	138		*	P
7440-41-7	Beryllium	0.06	U		P
7440-43-9	Cadmium	1.3	B		P
7440-70-2	Calcium	13900		E	P
7440-47-3	Chromium	21.3		*	P
7440-48-4	Cobalt	9.0	B		P
7440-50-8	Copper	27.9		NE	P
7439-89-6	Iron	20100		*	P
7439-92-1	Lead	65.9			P
7439-95-4	Magnesium	8650			P
7439-96-5	Manganese	293		N	P
7439-97-6	Mercury	2.3			CV
7440-02-0	Nickel	21.0			P
7440-09-7	Potassium	1220	B		P
7782-49-2	Selenium	1.2	B		P
7440-22-4	Silver	2.1	B		P
7440-23-5	Sodium	341	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	27.0			P
7440-66-6	Zinc	161		*	P
	Cyanide	0.12	U	N	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE043

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35783S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 70.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2510			P
7440-36-0	Antimony	6.1	U	N	P
7440-38-2	Arsenic	2.0	B		P
7440-39-3	Barium	29.4	B	*	P
7440-41-7	Beryllium	0.06	U		P
7440-43-9	Cadmium	0.65	B		P
7440-70-2	Calcium	22400		E	P
7440-47-3	Chromium	8.8		*	P
7440-48-4	Cobalt	2.2	B		P
7440-50-8	Copper	7.6		NE	P
7439-89-6	Iron	4810		*	P
7439-92-1	Lead	8.5			P
7439-95-4	Magnesium	10700			P
7439-96-5	Manganese	122		N	P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	5.3	B		P
7440-09-7	Potassium	334	B		P
7782-49-2	Selenium	0.68	B		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	272	U		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	9.1	B		P
7440-66-6	Zinc	41.8		*	P
	Cyanide	0.11	U	N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE044

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35784S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 60.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4500			P
7440-36-0	Antimony	7.1	U	N	P
7440-38-2	Arsenic	2.0	B		P
7440-39-3	Barium	71.1		*	P
7440-41-7	Beryllium	0.07	U		P
7440-43-9	Cadmium	0.26	B		P
7440-70-2	Calcium	54500		E	P
7440-47-3	Chromium	8.7		*	P
7440-48-4	Cobalt	4.2	B		P
7440-50-8	Copper	6.8	B	NE	P
7439-89-6	Iron	8800		*	P
7439-92-1	Lead	7.0			P
7439-95-4	Magnesium	11200			P
7439-96-5	Manganese	334		N	P
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	9.0	B		P
7440-09-7	Potassium	622	B		P
7782-49-2	Selenium	1.3	B		P
7440-22-4	Silver	0.46	U		P
7440-23-5	Sodium	315	U		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	12.1	B		P
7440-66-6	Zinc	39.1		*	P
	Cyanide	0.13	U	N	CA

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE045

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35785S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 76.0

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2930			P
7440-36-0	Antimony	5.7	U	N	P
7440-38-2	Arsenic	2.1	B		P
7440-39-3	Barium	28.1	B	*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	87700		E	P
7440-47-3	Chromium	4.7		*	P
7440-48-4	Cobalt	0.53	U		P
7440-50-8	Copper	7.2		NE	P
7439-89-6	Iron	4860		*	P
7439-92-1	Lead	15.5			P
7439-95-4	Magnesium	45700			P
7439-96-5	Manganese	185		N	P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	4.7	B		P
7440-09-7	Potassium	347	B		P
7782-49-2	Selenium	0.53	~~B~~ U		P
7440-22-4	Silver	0.37	U		P
7440-23-5	Sodium	252	U		P
7440-28-0	Thallium	0.97	U		P
7440-62-2	Vanadium	8.4	B		P
7440-66-6	Zinc	26.9		*	P
	Cyanide	0.10	U	N	CA

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN ILM04.1

13

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE046

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35786S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 80.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5810			P
7440-36-0	Antimony	5.3	U	N	P
7440-38-2	Arsenic	2.4	B		P
7440-39-3	Barium	42.3	B	*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	0.40	B		P
7440-70-2	Calcium	29900		E	P
7440-47-3	Chromium	22.5		*	P
7440-48-4	Cobalt	2.8	B		P
7440-50-8	Copper	10.1		NE	P
7439-89-6	Iron	7610		*	P
7439-92-1	Lead	74.7			P
7439-95-4	Magnesium	17600			P
7439-96-5	Manganese	107		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	7.9	B		P
7440-09-7	Potassium	622	B		P
7782-49-2	Selenium	0.77	B		P
7440-22-4	Silver	0.35	U		P
7440-23-5	Sodium	238	U		P
7440-28-0	Thallium	0.92	U		P
7440-62-2	Vanadium	14.5			P
7440-66-6	Zinc	57.5		*	P
	Cyanide	0.10	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE047

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35787S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 82.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4130			P
7440-36-0	Antimony	5.2	U	N	P
7440-38-2	Arsenic	3.2			P
7440-39-3	Barium	78.1		*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	0.24	B		P
7440-70-2	Calcium	2520		E	P
7440-47-3	Chromium	6.1		*	P
7440-48-4	Cobalt	4.5	B		P
7440-50-8	Copper	5.9	B	NE	P
7439-89-6	Iron	6510		*	P
7439-92-1	Lead	19.8			P
7439-95-4	Magnesium	1150	B		P
7439-96-5	Manganese	468		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	4.9	B		P
7440-09-7	Potassium	472	B		P
7782-49-2	Selenium	1.1	B		P
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	232	U		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	11.1	B		P
7440-66-6	Zinc	37.3		*	P
	Cyanide	0.10	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEE048

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Lab Sample ID: 35788S

Level (low/med): LOW Date Received: 11/30/00

% Solids: 82.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4750			P
7440-36-0	Antimony	5.2	U	N	P
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	80.0		*	P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	0.24	B		P
7440-70-2	Calcium	2310		E	P
7440-47-3	Chromium	6.8		*	P
7440-48-4	Cobalt	4.7	B		P
7440-50-8	Copper	6.0	B	NE	P
7439-89-6	Iron	6730		*	P
7439-92-1	Lead	20.4			P
7439-95-4	Magnesium	1210	B		P
7439-96-5	Manganese	457		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	5.7	B		P
7440-09-7	Potassium	543	B		P
7782-49-2	Selenium	1.3			P
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	232	U		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	12.6			P
7440-66-6	Zinc	38.7		*	P
	Cyanide	0.10	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

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	65.9	U	70.0	B	65.9	U	65.9	U	13.180	U	P
Antimony	21.5	U	21.5	U	21.5	U	21.5	U	4.300	U	P
Arsenic	3.2	B	3.2	B	2.0	B	2.1	B	0.311 ~~0.320~~	U ~~B~~	P
Barium	3.9	U	3.9	U	3.9	U	3.9	U	0.780	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.040	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.080	U	P
Calcium	1768.1	U	1768.1	U	1768.1	U	1768.1	U	353.620	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Copper	1.4	U	1.4	U	1.4	U	1.4	U	0.280	U	P
Iron	31.7	U	32.0	B	31.7	U	31.7	U	6.340	U	P
Lead	1.9	U	1.9	U	1.9	U	1.9	U	0.380	U	P
Magnesium	70.0	U	74.8	B	70.0	U	70.0	U	14.000	U	P
Manganese	5.3	U	5.3	U	5.3	U	5.3	U	1.060	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	B	0.050	U	CV
Nickel	1.9	U	1.9	U	1.9	U	1.9	U	0.380	U	P
Potassium	32.0	U	32.0	U	32.0	U	32.0	U	6.400	U	P
Selenium	2.6	B	2.0	U	2.0	U	2.0	U	0.600	B	P
Silver	1.4	U	1.4	U	1.4	U	1.4	U	0.280	U	P
Sodium	956.3	U	956.3	U	956.3	U	956.3	U	191.260	U	P
Thallium	3.7	U	3.7	U	3.7	U	3.7	U	0.740	U	P
Vanadium	1.7	U	1.7	U	1.7	U	1.7	U	0.340	U	P
Zinc	10.7	U	10.7	U	10.7	U	10.7	U	2.140	U	P
Cyanide	1.6	U	1.6	U	1.6	U	1.6	U	0.080	U	CA

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BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

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			65.9	U							P
Antimony			21.5	U							P
Arsenic			2.4	B							P
Barium			3.9	U							P
Beryllium			0.2	U							P
Cadmium			0.4	U							P
Calcium			1768.1	U							P
Chromium			1.0	U							P
Cobalt			2.0	U							P
Copper			1.4	U							P
Iron			31.7	U							P
Lead			1.9	U							P
Magnesium			70.0	U							P
Manganese			5.3	U							P
Mercury											NR
Nickel			1.9	U							P
Potassium			32.0	U							P
Selenium			2.3	B							P
Silver			1.4	U							P
Sodium			956.3	U							P
Thallium			3.7	U							P
Vanadium			1.7	U							P
Zinc			10.7	U							P
Cyanide			1.6	U					0.080	U	CA

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BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

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											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper	1.4	U	1.4	U	1.4	U	1.4	U			P
Iron											NR
Lead											NR
Magnesium											NR
Manganese	5.3	U	5.3	U	5.3	U	5.3	U			P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide	1.6	U	1.6	U	1.6	U					CA

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE03LS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.5

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	60.4121		5.2121	U	121.21	49.8	N	P
Arsenic	75-125	13.9879		6.1091		9.70	81.2		P
Barium	75-125	604.3152		152.4364		484.85	93.2		P
Beryllium	75-125	11.5879		0.0485	U	12.12	95.6		P
Cadmium	75-125	13.1879		2.0364		12.12	92.0		P
Calcium									NR
Chromium	75-125	56.4364		9.4545		48.48	96.9		P
Cobalt	75-125	120.0000		2.1333	B	121.21	97.2		P
Copper	75-125	144.8000		46.0606		60.61	162.9	N	P
Iron									NR
Lead		202.3273		187.7333		4.85	300.9		P
Magnesium									NR
Manganese	75-125	374.6909		365.8182		121.21	7.3	N	P
Mercury	75-125	0.6970		0.0606	U	0.61	114.3		CV
Nickel	75-125	127.3212		10.0848		121.21	96.7		P
Potassium									NR
Selenium	75-125	3.3455		1.1152	B	2.42	92.2		P
Silver	75-125	11.5879		0.3394	U	12.12	95.6		P
Sodium									NR
Thallium	75-125	11.3697		0.8970	U	12.12	93.8		P
Vanadium	75-125	127.4909		7.7333	B	121.21	98.8		P
Zinc		567.9030		749.6000		121.21	-149.9		P
Cyanide	75-125	2.0379		0.1756	B	6.06	30.7	N	CA

Comments:

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POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE03LA

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		119.60		21.50	U	120.0	99.7		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper		572.80		190.00		380.0	100.7		P
Iron									NR
Lead									NR
Magnesium									NR
Manganese		4302.50		1509.00		3018.0	92.6		P
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide		14.17		2.90	B	20.0	56.4		CA

Comments:

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DUPLICATES

EPA SAMPLE NO.

MEE03LD

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.5 % Solids for Duplicate: 82.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2720.4848		3021.7939		10.5		P
Antimony		5.2121	U	5.2121	U			P
Arsenic	2.4	6.1091		4.6545		27.0		P
Barium	48.5	152.4364		92.6788		48.8	*	P
Beryllium		0.0485	U	0.0485	U			P
Cadmium	1.2	2.0364		1.5273		28.6		P
Calcium		88576.5333		89654.0606		1.2		P
Chromium	2.4	9.4545		14.0848		39.3	*	P
Cobalt		2.1333	B	1.6000	B	28.6		P
Copper		46.0606		49.7455		7.7		P
Iron		32753.9394		13880.1455		80.9	*	P
Lead		187.7333		203.0061		7.8		P
Magnesium		54086.9333		56928.0970		5.1		P
Manganese		365.8182		320.7273		13.1		P
Mercury		0.0606	U	0.0606	U			CV
Nickel	9.7	10.0848		10.6667		5.6		P
Potassium		556.8000	B	591.0303	B	6.0		P
Selenium		1.1152	B	1.0182	B	9.1		P
Silver		0.3394	U	0.3394	U			P
Sodium		779.2000	B	625.9394	B	21.8		P
Thallium		0.8970	U	0.8970	U			P
Vanadium		7.7333	B	9.5515	B	21.0		P
Zinc		749.6000		477.0424		44.4	*	P
Cyanide		0.1756	B	0.2920	B	49.8		CA

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MEE03LL

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	11222.00		11201.00		0.2		P
Antimony	21.50	U	107.50	U			P
Arsenic	25.20		39.00	B	54.8		P
Barium	628.80		636.50	B	1.2		P
Beryllium	0.20	U	1.00	U			P
Cadmium	8.40		10.00	B	19.0		P
Calcium	365378.20		405730.00		11.0	E	P
Chromium	39.00		42.00	B	7.7		P
Cobalt	8.80	B	10.00	U	100.0		P
Copper	190.00		217.00		14.2	E	P
Iron	135110.00		142651.00		5.6		P
Lead	774.40		800.50		3.4		P
Magnesium	223108.60		224681.00		0.7		P
Manganese	1509.00		1582.00		4.8		P
Mercury							NR
Nickel	41.60		44.00	B	5.8		P
Potassium	2296.80	B	2192.50	B	4.5		P
Selenium	4.60	B	10.00	U	100.0		P
Silver	1.40	U	7.00	U			P
Sodium	3214.20	B	4781.50	U	100.0		P
Thallium	3.70	U	18.50	U			P
Vanadium	31.90	B	33.00	B	3.4		P
Zinc	3092.10		3359.00		8.6		P

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PREPARATION LOG

L , Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/07/00	1.00	200
MEE03J	12/07/00	1.00	200
MEE03K	12/07/00	1.00	200
MEE03L	12/07/00	1.00	200
MEE03LD	12/07/00	1.00	200
MEE03LS	12/07/00	1.00	200
MEE03M	12/07/00	1.00	200
MEE03T	12/07/00	1.00	200
MEE040	12/07/00	1.00	200
MEE041	12/07/00	1.00	200
MEE042	12/07/00	1.00	200
MEE043	12/07/00	1.00	200
MEE044	12/07/00	1.00	200
MEE045	12/07/00	1.00	200
MEE046	12/07/00	1.00	200
MEE047	12/07/00	1.00	200
MEE048	12/07/00	1.00	200
PBS	12/07/00	1.00	200

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

ICP ID Number: P3 Date: 10/18/00

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	65.9	P
Antimony	206.80		60	21.5	P
Arsenic	189.00		10	1.6	P
Barium	493.40		200	3.9	P
Beryllium	313.00		5	0.2	P
Cadmium	226.50		5	0.4	P
Calcium	317.90		5000	1768.1	P
Chromium	267.70		10	1.0	P
Cobalt	228.60		50	2.0	P
Copper	324.70		25	1.4	P
Iron	271.40		100	31.7	P
Lead	220.30		3	1.9	P
Magnesium	279.00		5000	70.0	P
Manganese	257.60		15	5.3	P
Mercury			0.2		NR
Nickel	231.60		40	1.9	P
Potassium	766.40		5000	32.0	P
Selenium	196.00		5	2.0	P
Silver	328.00		10	1.4	P
Sodium	330.20		5000	956.3	P
Thallium	190.80		10	3.7	P
Vanadium	292.40		50	1.7	P
Zinc	206.20		20	10.7	P
Cyanide			10		NR

Comments:
P3: THERMO JARRELL ASH

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

ICP ID Number: Date: 10/15/00

Flame AA ID Number: C5

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:
C5: CETAC M6000

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

ICP ID Number: Date: 10/15/00

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.6	CA

Comments:
C1: LACHAT

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PREPARATION LOG

1. Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/06/00	0.20	100
MEE03J	12/06/00	0.20	100
MEE03K	12/06/00	0.20	100
MEE03L	12/06/00	0.20	100
MEE03LD	12/06/00	0.20	100
MEE03LS	12/06/00	0.20	100
MEE03M	12/06/00	0.20	100
MEE03T	12/06/00	0.20	100
MEE040	12/06/00	0.20	100
MEE041	12/06/00	0.20	100
MEE042	12/06/00	0.21	100
MEE043	12/06/00	0.20	100
MEE044	12/06/00	0.20	100
MEE045	12/06/00	0.20	100
MEE046	12/06/00	0.20	100
MEE047	12/06/00	0.20	100
MEE048	12/06/00	0.21	100
PBS	12/06/00	0.20	100

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PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/06/00	1.00	50
MEE03J	12/06/00	1.01	50
MEE03K	12/06/00	1.00	50
MEE03M	12/06/00	1.02	50
MEE03T	12/06/00	1.01	50
MEE040	12/06/00	1.00	50
MEE041	12/06/00	1.02	50
MEE042	12/06/00	1.01	50
MEE043	12/06/00	1.02	50
MEE044	12/06/00	1.01	50
MEE045	12/06/00	1.01	50
MEE046	12/06/00	1.02	50
MEE047	12/06/00	1.01	50
MEE048	12/06/00	1.00	50
PBS	12/06/00	1.00	50
S100	12/06/00		50

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/07/00	1.00	50
MEE03L	12/07/00	1.00	50
MEE03LD	12/07/00	1.00	50
MEE03LS	12/07/00	1.00	50
PBS	12/07/00	1.00	50
S100	12/07/00		50

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ANALYSIS RUN LOG

L Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: P3 Method: P

Start date: 12/08/00 End date: 12/08/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1637		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	1643		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV	1.00	1648		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1.00	1653		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1659			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1704		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1710		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1715		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1721		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBS	1.00	1726		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSS	1.00	1731		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
E03LL	5.00	1737		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE03L	1.00	1742		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE03LD	1.00	1748		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE03LS	1.00	1753			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MEE03LA	1.00	1759			X																						
MEE03J	1.00	1804		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE03K	1.00	1809		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1815		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1820		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE03M	1.00	1826		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE03T	1.00	1831		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE040	1.00	1837		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE041	1.00	1842		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE042	1.00	1848		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE043	1.00	1853		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1858			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1904		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1909		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1915		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1920		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE044	1.00	1926		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: P3 Method: P

Start date: 12/08/00 End date: 12/08/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	C
MEE045	1.00	1931		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE046	1.00	1937		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE047	1.00	1942		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE048	1.00	1947		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1953			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1958		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	2004		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	2009		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	2015		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

L. , Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: P3 Method: P

Start date: 12/13/00 End date: 12/13/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	C N
S0	1.00	1307											X				X										
S	1.00	1312											X				X										
ICV	1.00	1317											X				X										
ICB	1.00	1323											X				X										
CRI	1.00	1328											X				X										
ICSA	1.00	1334											X				X										
ICSAB	1.00	1339											X				X										
CCV	1.00	1345											X				X										
CCB	1.00	1350											X				X										
ZZZZZZ	1.00	1355																									
ZZZZZZ	1.00	1401																									
ZZZZ	1.00	1406																									
ZZZZZZ	1.00	1412																									
ZZZZZZ	10.00	1417																									
ZZZZZZ	1.00	1423																									
MEE03LA	1.00	1428											X				X										
ZZZZZZ	1.00	1434																									
CCV	1.00	1439											X				X										
CCB	1.00	1444											X				X										
CRI	1.00	1450											X				X										
ICSA	1.00	1455											X				X										
ICSAB	1.00	1501											X				X										
CCV	1.00	1506											X				X										
CCB	1.00	1512											X				X										

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ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: C5 Method: CV

Start date: 12/08/00 End date: 12/08/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	C N
S0	1.00	0958																X									
S0.2	1.00	0959																X									
S0.5	1.00	1001																X									
S1.0	1.00	1002																X									
S2.0	1.00	1004																X									
S5.0	1.00	1006																X									
S10.0	1.00	1007																X									
ICV	1.00	1306																X									
ICB	1.00	1307																X									
CRA	1.00	1309																X									
CCV	1.00	1311																X									
[illegible]	1.00	1312																X									
PBS	1.00	1314																X									
LCSS	10.00	1315																X									
MEE03L	1.00	1317																X									
MEE03LD	1.00	1319																X									
MEE03LS	1.00	1320																X									
MEE03J	1.00	1322																X									
MEE03K	1.00	1324																X									
MEE03M	1.00	1325																X									
MEE03T	1.00	1327																X									
CCV	1.00	1328																X									
CCB	1.00	1330																X									
MEE040	1.00	1332																X									
MEE041	1.00	1333																X									
MEE042	1.00	1335																X									
MEE043	1.00	1337																X									
MEE044	1.00	1338																X									
MEE045	1.00	1340																X									
MEE046	1.00	1341																X									
MEE047	1.00	1343																X									
MEE048	1.00	1345																X									

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ANALYSIS RUN LOG

Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: C5 Method: CV

Start date: 12/08/00 End date: 12/08/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
CCV	1.00	1346																X									
CCB	1.00	1348																X									

FORM XIV - IN ILM04.1

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ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: C1 Method: CA

Start date: 12/07/00 End date: 12/07/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	C N
S0	1.00	0948																									X
S10.0	1.00	0949																									X
S50.0	1.00	0950																									X
S100.0	1.00	0951																									X
S200.0	1.00	0951																									X
S400.0	1.00	0952																									X
S100	1.00	1029																									X
ICV	1.00	1030																									X
ICB	1.00	1031																									X
CCV	1.00	1032																									X
CCB	1.00	1033																									X
S	1.00	1033																									X
LCSS	1.00	1034																									X
ZZZZZZ	1.00	1035																									
ZZZZZZ	1.00	1036																									
ZZZZZZ	1.00	1037																									
MEE03J	1.00	1038																									X
MEE03K	1.00	1039																									X
MEE03M	1.00	1039																									X
MEE03T	1.00	1040																									X
CCV	1.00	1041																									X
CCB	1.00	1042																									X
MEE040	1.00	1043																									X
MEE041	1.00	1044																									X
MEE042	1.00	1044																									X
MEE043	1.00	1045																									X
MEE044	1.00	1046																									X
MEE045	1.00	1047																									X
MEE046	1.00	1048																									X
MEE047	1.00	1049																									X
MEE048	1.00	1050																									X
CCV	1.00	1050																									X

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: C1 Method: CA

Start date: 12/07/00 End date: 12/07/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
CCB	1.00	1051																									
ZZZZZZ	1.00	1052																									
CCV	1.00	1053																									
CCB	1.00	1054																									

FORM XIV - IN ILM04.1

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ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 28771 SAS No.: SDG No.: MEE03J

Instrument ID Number: C1 Method: CA

Start date: 12/07/00 End date: 12/07/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0948																									X
S10.0	1.00	0949																									X
S50.0	1.00	0950																									X
S100.0	1.00	0951																									X
S200.0	1.00	0951																									X
S400.0	1.00	0952																									X
S100	1.00	1435																									X
ICV	1.00	1436																									X
ICB	1.00	1437																									X
CCV	1.00	1437																									X
CCB	1.00	1438																									X
S	1.00	1439																									X
LCSS	1.00	1440																									X
MEE03L	1.00	1441																									X
MEE03LD	1.00	1442																									X
MEE03LS	1.00	1443																									X
ZZZZZZ	1.00	1443																									
ZZZZZZ	1.00	1444																									
MEE03LA	1.00	1445																									X
CCV	1.00	1446																									X
CCB	1.00	1447																									X

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: HE E03J CERCLIS No: ILD 000034371

Case No: 28771 Site Name/Location: ROCKFORD SAND + GRAVEL

Contractor or EPA Lab: SENTINEL Data User: EPA

No. of Samples: 14 Date Sampled or Date Received: 12-18-00

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 14 No of samples received: 14

Received by: Ena M. Dixon / ESAT Date: 12-18-00

Received by LSSS. Ena M. Dixon / ESAT Date: 12-18-00

Review started: 1-11-01 Reviewer Signature: [signature]

Total time spent on review: 8 Date review completed: 1-11-01

Copied by Ena M. Dixon / ESAT Date: 1-16-01

Mailed to user by. Ena M. Dixon / ESAT Date: 1-16-01

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 V

DATE: _____

SUBJECT: Review of Data
Received for Review on December 15, 2000

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: Rockford Sand & Gravel (IL)

Case number: 28771 SDG Number: EE03G

Type of Samples: 9 water samples

Sample Numbers: EE03G-EE03H, EE03Q-EE03R, EE03W-EE03Z, EE049

Laboratory: MITKEM Hrs. for Review: _____

Following are our findings:

RECEIVED
JAN 1 6 2001
IEPA-BOL-FSRS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 28771 **SDG Number: EE03G**
Site Name: Rockford Sand & Gravel (IL) **Laboratory: MITKEM**

The samples (EE03G-EE03H, EE03Q-EE03R, EE03W-EE03Z, EE049) were collected on 11/28-29/2000. The laboratory received nine (9) water samples on 11/30/2000 in good condition for the list of organic analytes following the SOW OLC02.1. Sample EE049 was analyzed for the list of volatile analytes only. The remaining samples were analyzed for the full list of organic analytes.

The Laboratory Control Samples (LCS) were analyzed for the VOA, SVOA and Pest/PCB fractions.

Sample EE049 was identified as the trip blank. None of the samples were identified as the field duplicates.

The VOA samples were analyzed within the holding time of fourteen (14) days for the water samples. The SVOA samples were extracted within the holding time of seven (7) days for the water samples with the exception of sample EE03QRE which was extracted thirteen (13) days after samples collection. The Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The extracts were analyzed within forty (40) days following the extraction.

The reviewer's narrative and data qualifiers are noted in the following pages.

1005 0 1 WAL

Reviewed By: Steffanie Tobin (Lockheed/ESAT)
Date: January 2, 2001

Case Number : 28771 **SDG Number: EE03G**
Site Name: Rockford Sand & Gravel (IL) **Laboratory: MITKEM**

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

1.HOLDING TIME

The laboratory received nine (9) low level water samples (EE03G-EE03H, EE03Q-EE03R, EE03W-EE03Z, EE049) on 11/30/2000 in good condition for the list of organic analytes following the SOW OLC02.1. The VOA samples were analyzed within the holding time of fourteen (14) days for water samples; therefore, the results are acceptable. The SVOA samples were extracted within the holding time of seven (7) days for the water samples with the exception of sample EE03QRE which was extracted thirteen (13) days after samples collection. The SVOA extracts were analyzed within forty (40) days following the extraction. The positive results for EE03QRE are flagged as estimated (J) and non-detected (UJ). The results for the remaining SVOA are acceptable. The Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The Pest/PCB extracts were analyzed within forty (40) days following the extraction. therefore, the Pest/PCB results are acceptable.

2.GC/MS TUNING PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP. All samples were analyzed within the twelve (12) hour periods for instrument performance checks.

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-608 and DB-1701 columns were acceptable (<20%); therefore, the results are acceptable.

The Florisil Cartridge Checks met the QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

For the VOA fraction, VBLK2M and VBLK2N are the method blanks. VHBLK2N is the storage blank. All blanks are clean.

For the SVOA fraction, SBLK1A and SBLK1D are the method blanks. Both method blanks are clean.

PBLK01 is the method blank for the Pest/PCB fraction. It contains no Pest/PCB residues.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The system monitoring compound recoveries for the VOA fraction were within the QC limits; therefore,

the results are acceptable.

For the SVOA fraction, the recoveries of phenol-d_5 and 2-fluorophenol for EE03Q were below the expanded QC limits. The positive results for the acid compounds fraction are flagged as estimated (J) and non-detected as unusable (R). The recovery of 2-fluorobiphenyl for EE03Q was below the QC limit; the results of the base/neutral compounds fraction for EE03Q are acceptable since the protocol allows at least two surrogates in either base/neutral or acid fraction to be out of control before a reanalysis or qualification is required. The results of EE03QRE should be used for results validation since the surrogates were within the QC limit.

For the Pest/PCB fraction, the surrogate recoveries for all samples were within the QC limits. Therefore, the results are acceptable.

6.LABORATORY CONTROL SAMPLES

VLCS2M is the LCS for the VOA fraction. SLCS1A is the LCS for the SVOA fraction. PLCS01 is the LCS for the Pest/PCB fraction.

The spike recoveries for the LCSs were within the QC limits; therefore, the results are acceptable.

7.FIELD BLANK AND FIELD DUPLICATE

Sample EE049 was identified as the trip blank. The trip blank was analyzed for the VOA analytes only and it is clean. None of the samples in this case were identified as the field duplicates.

8.INTERNAL STANDARDS

The internal standard retention times and area counts for the VOA and SVOA fractions were within the QC limits; therefore, the results are acceptable.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the VOA, SVOA and Pest/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

The baseline for the Pest/PCB analysis indicated acceptable performance.

Reviewed By: Steffanie Tobin (Lockheed/ESAT)
Date: January 2, 2001

Case Number : 28771 **SDG Number: EE03G**
Site Name: Rockford Sand & Gravel (IL) **Laboratory: MITKEM**

12.ADDITIONAL INFORMATION

All VOA samples have pH < 2.0. All SVOA and Pest/PCB samples were adjusted to pH=2.0 before the extraction.

Reviewed By: Steffanie Tobin (Lockheed/ESAT)
Date: January 2, 2001

(page 1 of 1)

CASE\SAS#: 28771
COLUMN: DB-624
HEATED PURGE(Y/N):

LABORATORY: Mitkem
SITENAME: Richford Sand & Gravel

Instrument# V2		Initial cal.			Contin. cal			Contin Cal			Contin Cal			Contin Cal	
Date/Time		12/4/00	1100		12/5/00	1002									
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d
Chloromethane	0.01														
Bromomethane	0.10														
Vinyl chloride	0.10														
Chloroethane	0.01														
Methylene chloride	0.01														
Acetone	0.01	0.069			0.065	34.6	T								
Carbon disulfide	0.01														
1,1-Dichloroethene	0.10														
1,1-Dichloroethane	0.20														
cis-1,2-Dichloroethene	0.10														
trans-1,2-Dichloroethene	0.10														
Chloroform	0.20														
1,2-Dichloroethane	0.10														
2-Butanone	0.01														
Bromochloromethane	0.05														
1,1,1-Trichloroethane	0.10														
Carbon tetrachloride	0.10														
Bromodichloromethane	0.20														
1,2-Dichloropropane	0.01														
cis-1,3-Dichloropropene	0.20														
Trichloroethene	0.30														
Dibromochloromethane	0.10														
1,1,2-trichloroethane	0.10														
Benzene	0.40														
trans-1,3-Dichloropropene	0.10														
Bromoform	0.05														
4-Methyl-2-Pentanone	0.01														
2-Hexanone	0.01														
Tetrachloroethene	0.10														
1,1,2,2-Tetrachloroethane	0.10														
1,2-Dibromoethane	0.10														
Toluene	0.40														
Chlorobenzene	0.50														
Ethylbenzene	0.10														
Styrene	0.30														
Xylene (total)	0.30														
1,2-Dibromo-3-chloropropane	0.10														
1,3-Dichlorobenzene	0.40														
1,4-Dichlorobenzene	0.40														
1,2-Dichlorobenzene	0.40														
1,2,4-Trichlorobenzene	0.40														
4-Bromofluorobenzene	0.20														

Samples affected:					
	VB1K2M	VB1K2N			
	VLCS2M	EE03R			
	EE03G	3W			
	EE03H	3X			
		3Y			
		3Q			
		3Z			
		EE04G			
		VB1K2J			

Reviewer's Init./Date: ST 12/26/00

J/R= All positive results are estimated "J" and non-detected results are unusable "R"
* = These flags should be applied to the analytes on the sample data sheets
# = Minimum Relative Response Factor

ESAT-5-021 5 10/99

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 28771
COLUMN:

LABORATORY: Mitkem
SITE NAME: Rockford Sand & Gravel

Instrument# S1		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/11/00 14:22			12/11/00 18:59			12/13/00 10:08								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01	0.2691						0.161	-40.1	J						
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

	SP1ICIA	SP1ICID
	SLCS1A	EEU3DRE
	EE03G	
	3H	
	3R	
	3W	
	3X	
	3Y	
	3Q	
	3Z	

Reviewer's Init/Date: 12/29/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 28771
COLUMN:

LABORATORY: Mitkem
SITE NAME: Rockford Sand & Gravel

Instrument# S1		Initial Cal			Contin Cal			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/11/00 14:22			12/11/00 18:51			12/13/00 10:08								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01	0.158						0.248	38.0	J						
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.139						0.104	-25.2	J						
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: GT 12/29/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER

PESTICIDE/PCB TCL COMPOUNDS

(Page 1 of 1)

Pg ____ of ____

CASE\SAS#: 28771

COLUMN: DB-1701

LABORATORY: Mitkem

SITE NAME: Parkland Sand & Gravel

Instrument# E2		Initial Cal.			Contin Cal.			Contin Cal			Contin Cal.			Contin Cal		
Date/Time:		11/24/00 13:55			12/07/00 1:36			12/7/00 19:55								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

PB11L01	PLCS01			
FEC3G	FEC3Y			
3H	3E			
3R				
3W				
3X				
3G				

Reviewer's Init/Date: [illegible] 12/20/00

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIER

P:_____ S:_____

PESTICIDE/PCB TCL COMPOUNDS

(Page 1 of 1)

CASE\SAS#: 28771

COLUMN: DB-608

LABORATORY: Mitkem

SITE NAME: Rockford Sand & Gravel

Instrument# E2		Initial Cal.			Contin Cal			Contin Cal			Contin. Cal.			Contin Cal		
Date/Time:		12/24/00 13 59			12/07/00 1 36			12/07/00 19 55								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0 40															
delta-BHC	0 90															
gamma-BHC	0 01															
Heptachlor	0 01															
Aldrin	0 01															
Heptachlor epoxide	0.10															
Endosulfan I	0 10															
Dieldrin	0 05															
4, 4'-DDE	0 70															
Endrin	0 70															
Endosulfan II	0 01															
4 4'-DDD	0 60															
Endosulfan sulfate	0 60															
4 4'-DDT	0 01															
Methoxychlor	0 01															
Endrin ketone	0 80															
Endrin aldehyde	0 70															
alpha chlordane	0 01															
gamma chlordane	0 01															
Aroclor 1016																
Aroclor 1221																
Aroclor 1232																
Aroclor 1242																
Aroclor 1248																
Aroclor 1254																
Aroclor 1260																

Affected samples

EEC3[illegible]	EEC3[illegible]			
EEC3G	EEC3U			
3H	3Z			
3R				
3W				
3X				
3V				

Reviewer's Init/Date: CT 12/29/00

* These flags should be applied to the analytes on the sample data sheets.

Minimum Relative Response Factor

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EE03G CERCLIS No: ILD000034371

Case No: 28771 Site Name/Location: Rockford Sand + Gravel

Contractor or EPA Lab: MiTKem Data User: IEPA

No. of Samples: 9 Date Sampled or Date Received: 12-15-00

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 9 No of samples received: 9

Received by Ella M. Dixon / ESAT Date: 12-15-00

Received by LSSS: Ella M. Dixon / ESAT Date: 12-15-00

Review started: 12/29/00 Reviewer Signature: Stefanie Tchin

Total time spent on review: 8 hrs Date review completed: 1/2/01

Copied by Ella M Dixon / ESAT Date: 1-9-01

Mailed to user by: Ella M Dixon / ESAT Date: 1-9-01

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: _____

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as in the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

U PA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No. EE03G

L

Date Shipped: 11/29/00 **Carrier Name:** Fed Ex **Airbill:** 4684286563 **Shipped to:** Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	**Date Received/Received by:** 11/30/00 Nathan Reynolds **Lab Contract No.:** 68-D6-0063 **Unit Price:** $498.75 **Transfer To:** — **Date Received/Received By:** — **Contract No.:** — **Price:** —	**Sampler (Signature)** Mark W 11/29/00 **Relinquished By:** / **Date / Time** 11/30/00 0900 / **Received By:** Nathan Reynolds **Relinquished By:** / **Date / Time** / **Received By:** **Relinquished By:** / **Date / Time** / **Received By:**

	ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
01	EE03G	Potable Well / Mark Wagner	L/G	BNA (21), PEST (21)	5-120697 (Ice Only), 5-120698 (Ice Only) (2)	G201	11/28/2000 10.00	MEE03G	OK
02	EE03H	Potable Well / Mark Wagner	L/G	BNA (21), PEST (21)	5-120780 (Ice Only), 5-120781 (Ice Only) (2)	G202	11/28/2000 10 00	MEE03H	OK
03	EE03R	Potable Well	L/G	BNA (21), PEST (21), VOA (21)	5-120167 (H2SO4), 5-120168 (H2SO4), 5-120169 (H2SO4), 5-120170 (H2SO4), 5-120183 (Ice Only), 5-120184 (Ice Only), 5-120195 (H2SO4) (7)	G204	11/29/2000 09 00	MEE03R	OK
04	EE03W	Potable Well / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-120298 (Ice Only), 5-120299 (Ice Only), 5-120300 (H2SO4), 5-120301 (H2SO4), 5-120302 (H2SO4), 5-120303 (H2SO4), 5-120304 (H2SO4) (7)	G206	11/29/2000 11 30	MEE03W	OK
05	EE03X	Potable Well / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-120171 (H2SO4), 5-120172 (H2SO4), 5-120307 (Ice Only), 5-120308, 5-120309 (H2SO4), 5-120310 (H2SO4), 5-120311 (H2SO4) (7)	G207	11/29/2000 11.00	MEE03X	OK
06	EE03Y	Field QC / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	120175 (Ice Only), 120176 (Ice Only), 120177 (H2SO4), 120178 (H2SO4), 120179 (H2SO4), 120180 (H2SO4), 120181 (H2SO4) (7)	G208	11/29/2000 12.15	MEE03Y	OK

GC

Shipment for Case Complete? yes	**Sample(s) to be used for Laboratory QC:** EE03H	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number** ~~[illegible]~~, 20034	**Cooler Temperature Upon Receipt:** 6°C
Analysis Key Below: Concentration: L = Low M = Low/Medium H = High Type/Designate: Composite = C Grab = G BNA=CLP TCL Semivolatiles,PEST=CLP TCL Pesticide/PCBs,VOA=CLP TCL Volatiles			**Custody Seal Intact?** Y	**Shipment Iced?** Y

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0003

USEPA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No. EE03G

Date Shipped: 11/29/00 Carrier Name: Fed Ex Airbill: 4684286563 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Date Received/Received by: 11/30/00 Nathan Reynolds Lab Contract No.: 68-D6-0063 Unit Price: $498.75 Transfer To: — Date Received/Received By: — Contract No.: — Price: —	Sampler (Signature) 11/29/00 Relinquished By: / Date / Time 11/30/00 0900 / Received By: Relinquished By: / Date / Time / Received By: Relinquished By: / Date / Time / Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
01 EE03G	Potable Well / Mark Wagner	L/G	VOA (21)	5-120692 (H2SO4), 5-120693 (H2SO4), 5-120694 (H2SO4), 5-120695 (H2SO4), 5-120696 (H2SO4) (5)	G201	11/28/2000 10 00	MEE03G	OK
02 EE03H	Potable Well / Mark Wagner	L/G	VOA (21)	5-120782 (H2SO4), 5-120783 (H2SO4), 5-120784 (H2SO4), 5-120785 (H2SO4), 5-120786 (H2SO4) (5)	G202	11/28/2000 10 00	MEE03H	OK

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC: EE03H	Additional Sampler Signature(s):	Chain of Custody Seal Number: 2033	Cooler Temperature Upon Receipt: 6°C	
Analysis Key Below: VOA=CLP TCL Volatiles	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact? Y	Shipment Iced? Y

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to C Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA 20191-3436 P 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0012

F2V4.0

U' 'PA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No. EE03G

Date Shipped: 11/29/00
Carrier Name: Fed Ex
Airbill: 4684286563
Shipped to:
Mitkem Corporation
175 Metro Center Blvd.
Warwick RI 02886
(401) 732-3400

Date Received/Received by: 11/30/00 Nathan Reynolds
Lab Contract No.: 68-D6-0063 **Unit Price:** $498.75

Transfer To: —
Date Received/Received By: —
Contract No.: — **Price:** —

Sampler (Signature) Mark Wagner 11/29/00

Relinquished By:	Date / Time	Received By:
	11/30/00 0900	Nathan Reynolds
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE03Q	Potable Well / Mark Wagner	L/G	VOA (21)	HCl 5-120151 (~~H2SO4~~), 5-120152 (~~H2SO4~~), 5-120153 (~~H2SO4~~), 5-120154 (~~H2SO4~~), 5-120155 (~~H2SO4~~), 5-120156 (~~H2SO4~~), 5-120157 (~~H2SO4~~), 5-120159 (~~H2SO4~~), 5-120160 (~~H2SO4~~), 5-120161 (~~H2SO4~~), 5-120162 (~~H2SO4~~), 5-120163 (~~H2SO4~~), 5-120164 (~~H2SO4~~), 5-120165 (~~H2SO4~~) (14) 5-120158	G203	11/29/2000 10 00	MEE03Q	OK

6°C

Shipment for Case Complete? yes	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 20037	Cooler Temperature Upon Receipt: 6°C	
Analysis Key Below: VOA=CLP TCL Volatiles	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact? Y	Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0006

F2V4.0

USEPA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No. EE03G

Date Shipped: 11/29/00 **Carrier Name:** Fed Ex **Airbill:** 4684286563 **Shipped to:** Mitkem Corporation 175 Metro Center Blvd Warwick RI 02886 (401) 732-3400	**Date Received/Received by:** 11/30/00 Nathan Reynolds **Lab Contract No.:** 68-D6-0063 **Unit Price:** $498.75 **Transfer To:** — **Date Received/Received By:** — **Contract No.:** — **Price:** —	**Sampler (Signature)** Mark Wagner 11/29/00		
		Relinquished By:	**Date / Time** 11/30/00 0900	**Received By:** Nathan Reynolds
		Relinquished By:	**Date / Time**	**Received By:**
		Relinquished By:	**Date / Time**	**Received By:**

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE03Q	Potable Well / Mark Wagner	L/G	PEST (21)	5-120187 (Ice Only), 5-120847 (Ice Only), 5-120909 (Ice Only) (3)	G203	11/29/2000 10 00	MEE03Q	OK

6°C

Shipment for Case Complete? * Yes	**Sample(s) to be used for Laboratory QC:** EE03Q	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number** 20035	**Cooler Temperature Upon Receipt:** 6°C	
Analysis Key Below: PEST=CLP TCL Pesticide/PCBs	**Concentration:** L = Low M = Low/Medium H = High	**Type/Designate:** Composite = C Grab = G		**Custody Seal Intact?** Y	**Shipment Iced?** Y

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to C t Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA 20191-3436 P 703/264-9348 Fax 703/264-9222

TR Num

F2V4.0

USEPA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No. EE03G

L

Date Shipped: 11/29/00 Carrier Name: Fed Ex Airbill: 4684286563 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Date Received/Received by: 11/30/00 Nathan Reynolds Lab Contract No.: 68-D6-0063 Unit Price: $498.75 Transfer To: — Date Received/Received By: — Contract No.: — Price: —	Sampler (Signature) 11/29/00		
		Relinquished By:	Date / Time 11/30/00 0900	Received By:
		Relinquished By:	Date / Time	Received By:
		Relinquished By:	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
07 EE03Q	Potable Well / Mark Wagner	L/G	BNA (21)	5-120188 (Ice Only), 5-120189 (Ice Only), 5-120190 (Ice Only) (3)	G203	11/29/2000 10 00	MEE03Q	OK

Shipment for Case Complete? Yes	Sample(s) to be used for Laboratory QC: EE03Q	Additional Sampler Signature(s):	Chain of Custody Seal Number 20036	Cooler Temperature Upon Receipt: 6°C	
Analysis Key Below: BNA=CLP TCL Semivolatiles	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact? Y	Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr. Reston, VA 20191-3436 Phone. 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0007

F2V4.0

USEPA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No. EE03G

L

Date Shipped: 11/29/00
Carrier Name: Fed Ex
Airbill: 4684286563
Shipped to:
Mitkem Corporation
175 Metro Center Blvd
Warwick RI 02886
(401) 732-3400

Date Received/Received by: 11/30/00 Nathan Reynolds
Lab Contract No.: 68-D6-0063 Unit Price: $498.75

Transfer To: —
Date Received/Received By: —
Contract No.: — Price: —

Sampler (Signature) [signature] 11/29/00

Relinquished By:	Date / Time	Received By:
	11/30/00 0900	[signature]
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE03Z	Potable Well	L/G	BNA (21), PEST (21), VOA (21)	5-55052 (Ice Only), 5-55053 (Ice Only), 5-55054 (H2SO4), 5-55055 (H2SO4), 5-55056 (H2SO4), 5-55057 (H2SO4), 5-55058 (H2SO4) (7)	G205	11/29/2000 12 30	MEE03Z	OK

Shipment for Case Complete?	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number	Cooler Temperature Upon Receipt:
yes	EE03H		20033, [redacted]	6°C

Analysis Key Below:	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			Y	Y

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to: Cc Laboratory Analytical Services Support 2000 Edmund Halley Dr. Reston, VA 20191-3436 Pl 703/264-9348 Fax 703/264-9222
TR Number: 05-4050127 29-112900-0023

U' 'PA Contract Laboratory Program
Organic Traffic Report

Case No. 28771
DAS No.
SDG No. EE03G

Date Shipped: 11/29/00 Carrier Name: Fed Ex Airbill: 4684286563 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Date Received/Received by: 11/30/00 Nathan Reynolds Lab Contract No.: 68-D6-0063 Unit Price: $498.75 Transfer To: Date Received/Received By: Contract No.: Price:	Sampler (Signature) 12/29/00		
		Relinquished By:	Date / Time 11/30/00 0900	Received By:
		Relinquished By:	Date / Time	Received By:
		Relinquished By:	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE049	Field QC	/G	VOA (21)	5-55027 (HCL), 5-55028 (HCL) (2)	TB	11/29/2000		OK

SDG - Final Sample

10

Shipment for Case Complete? X YES	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 20033	Cooler Temperature Upon Receipt: 6°C
Analysis Key Below: VOA=CLP TCL Volatiles	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

PR provides preliminary results Requests for preliminary results will increase analytical costs
Send Copy to. Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-112900-0011

DEC 1 5 2000

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to USEPA Case # 28771 and SDG# EE03G. Analyses were performed for nine aqueous samples that were received on November 30, 2000. The analyses were performed under USEPA Contract # 68-D6-0063. Please note that the coolers received were measured at 6°C.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis	VOA pH
EE03G	71954001	V, S, P	<2
EE03H	71954002	V, S, P	<2
EE03R	71954003	V, S, P	<2
EE03W	71954004	V, S, P	<2
EE03X	71954005	V, S, P	<2
EE03Y	71954006	V, S, P	<2
EE03Q	71954007	V, S, P	<2
EE03Z	71954008	V, S, P	<2
EE049	71954009	V	<2

V = Volatiles
S = Semivolatiles
P = Pesticides/PCB

The analyses were performed using USEPA CLP Low Concentration Water (OLC02.1) protocols. The analyses were performed with strict adherence to the SOW with the following exceptions and observations:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required.

2. Volatile Analysis:

Trap used for instrument V2: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

No unusual observation was made for the analysis.

3. Semivolatile Analysis:

GC column: 30 m x 0.25 mm id (0.5 um film thickness) DB-5MS capillary column

Sample EE03Q was re-extracted and re-analyzed outside of holding time due to non-compliant surrogate recoveries. The initial extraction was within the holding time.

Surrogate recoveries were within the QC limits except for low recovery of 2-fluorobiphenyl, 2-fluorophenol and phenol-d5 in sample EE03Q. The sample was re-extracted and re-analyzed with all surrogate recoveries within the QC limits.

No other unusual observation was made for the analysis.

4. Pesticides/PCB Analysis:

GC column used: 30 m x 0.53 mm id (0.81 um film thickness) DB-608 and 30 m x 0.53 mm id (0.5 um film thickness) DB-1701 megabore columns

No unusual observation was made for the analysis.

All of the submittals to the region are originals other than log book pages and copies of tunes and standard files which are shared by many other cases. For these, the original copies are archived in the laboratory.

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 has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
12/13/00

2LCA
LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

	EPA SAMPLE NO.	BFB %REC #	OTHER	TOT OUT
01	VBLK2M	95		0
02	VLCS2M	88		0
03	EE03G	92		0
04	EE03H	87		0
05	VBLK2N	97		0
06	EE03R	95		0
07	EE03W	98		0
08	EE03X	92		0
09	EE03Y	94		0
10	EE03Q	98		0
11	EE03Z	96		0
12	EE049	96		0
13	VHBLK2N	94		0
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QC LIMITS
%REC
BFB = Bromofluorobenzene (80-120)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS2M

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2L1204B LCS Lot No.:

Lab File ID: V2D6137 Date Analyzed: 12/04/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

LCS Aliquot: 10 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Vinyl chloride	125	118	94	60-140
1,2-Dichloroethane	125	118	94	60-140
Carbon tetrachloride	125	120	96	60-140
1,2-Dichloropropane	125	112	90	60-140
Trichloroethene	125	114	91	60-140
1,1,2-Trichloroethane	125	112	90	60-140
Benzene	125	115	92	60-140
cis-1,3-Dichloropropene	125	110	88	60-140
Bromoform	125	114	91	60-140
Tetrachloroethene	125	105	84	60-140
1,2-Dibromoethane	125	108	86	60-140
1,4-Dichlorobenzene	125	114	91	60-140

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2M

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1204B Date Analyzed: 12/04/00

Lab File ID: V2D6136 Time Analyzed: 1904

Instrument ID: V2

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS2M	V2L1204B	V2D6137	1942
02	EE03G	71954001	V2D6150	0249
03	EE03H	71954002	V2D6151	0321
04				
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COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2N

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1205A Date Analyzed: 12/05/00

Lab File ID: V2D6162 Time Analyzed: 1038

Instrument ID: V2

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE03R	71954003	V2D6163	1120
02	EE03W	71954004	V2D6164	1153
03	EE03X	71954005	V2D6165	1226
04	EE03Y	71954006	V2D6166	1259
05	EE03Q	71954007	V2D6167	1332
06	EE03Z	71954008	V2D6168	1404
07	EE049	71954009	V2D6169	1437
08	VHBLK2N	V2B1205C	V2D6174	1854
09				
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COMMENTS:

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2M

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1204B Date Received: _____

Lab File ID: V2D6136 Date Analyzed: 12/04/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2M

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1204B Date Received: _____

Lab File ID: V2D6136 Date Analyzed: 12/04/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.				
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2N

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1205A Date Received: _____

Lab File ID: V2D6162 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2N

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1205A Date Received: _____

Lab File ID: V2D6162 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.				
2.				
3.				
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK2N

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1205C Date Received: 11/30/00

Lab File ID: V2D6174 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK2N

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2B1205C Date Received: 11/30/00

Lab File ID: V2D6174 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS2M

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: V2L1204B Date Received: _____

Lab File ID: V2D6137 Date Analyzed: 12/04/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	5	
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	5	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	5	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	4	
10061-01-5	cis-1,3-Dichloropropene	4	
79-01-6	Trichloroethene	4	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	4	
71-43-2	Benzene	5	
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	4	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	4	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	4	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

G201

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03G

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954001 Date Received: 11/30/00

Lab File ID: V2D6150 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

G201

EPA SAMPLE NO.

EE03G

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954001 Date Received: 11/30/00

Lab File ID: V2D6150 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

G202

EPA SAMPLE NO.

EE03H

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954002 Date Received: 11/30/00

Lab File ID: V2D6151 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE03H

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954002 Date Received: 11/30/00

Lab File ID: V2D6151 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Q

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007 Date Received: 11/30/00

Lab File ID: V2D6167 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

G203

EPA SAMPLE NO.

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE03Q

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007 Date Received: 11/30/00

Lab File ID: V2D6167 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03R

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954003 Date Received: 11/30/00

Lab File ID: V2D6163 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

6207

EPA SAMPLE NO.

EE03R

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954003 Date Received: 11/30/00

Lab File ID: V2D6163 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03W

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954004 Date Received: 11/30/00

Lab File ID: V2D6164 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE03W

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954004 Date Received: 11/30/00

Lab File ID: V2D6164 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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0207

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03X

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954005 Date Received: 11/30/00

Lab File ID: V2D6165 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	0.6	J
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	2	
156-59-2	cis-1,2-Dichloroethene	11	
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	0.8	J
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE03X

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954005 Date Received: 11/30/00

Lab File ID: V2D6165 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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G 208

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Y

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954006 Date Received: 11/30/00

Lab File ID: V2D6166 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.7	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

G208

EPA SAMPLE NO.

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE03Y

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954006 Date Received: 11/30/00

Lab File ID: V2D6166 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Z

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954008 Date Received: 11/30/00

Lab File ID: V2D6168 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

G205

EPA SAMPLE NO.

EE03Z

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954008 Date Received: 11/30/00

Lab File ID: V2D6168 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE049

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954009 Date Received: 11/30/00

Lab File ID: V2D6169 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE049

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954009 Date Received: 11/30/00

Lab File ID: V2D6169 Date Analyzed: 12/05/00

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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2LCB
LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

	EPA SAMPLE NO.	NBZ %REC #	FBP %REC #	TPH %REC #	PHL %REC #	2FP %REC #	TBP %REC #	OTHER	TOT OUT
01	SBLK1A	72	66	80	37	36	46		0
02	SLCS1A	64	59	49	28	29	43		0
03	EE03G	78	69	82	39	38	51		0
04	EE03H	75	69	81	38	37	51		0
05	EE03R	69	62	76	35	34	47		0
06	EE03W	74	68	80	38	36	49		0
07	EE03X	69	62	73	34	33	46		0
08	EE03Y	69	64	78	36	34	47		0
09	EE03Q	31	30*	21	7*	9*	17		3
10	EE03Z	64	59	76	31	28	45		0
11	SBLK1D	70	62	78	35	37	50		0
12	EE03QRE	73	63	81	35	37	52		0
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		QC LIMITS %REC
NBZ	= Nitrobenzene-d5	(23-120)
FBP	= 2-Fluorobiphenyl	(30-115)
TPH	= Terphenyl-d14	(18-140)
PHL	= Phenol-d5	(15-115)
2FP	= 2-Fluorophenol	(15-121)
TBP	= 2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out.

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS1A

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1130-LW1 LCS Lot No.:

Lab File ID: S1B9181 Date Extracted: 11/30/00

LCS Aliquot: 1000 (ul) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Phenol	40	21	52	40-120
bis(-2-Chloroethyl)Ether	20	13	65	50-110
2-Chlorophenol	40	24	60	50-110
N-Nitroso-di-n-propylamine	20	12	60	30-110
Hexachloroethane	20	12	60	20-110
Isophorone	20	13	65	50-110
Naphthalene	20	13	65	30-110
4-Chloroaniline	40	19	48	10-120
2,4,6-Trichlorophenol	40	22	55	40-120
2,4-Dinitrotoluene	20	13	65	30-120
Diethylphthalate	20	14	70	50-120
N-nitrosodiphenylamine (1)	20	13	65	30-110
Hexachlorobenzene	20	14	70	40-120
Benzo(a)pyrene	20	11	55	50-120

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1130-BW1 Date Extracted: 11/30/00

Lab File ID: S1B9180 Date Analyzed: 12/11/00

Instrument ID: S1 Time Analyzed : 2022

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES and LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS1A	S1130-LW1	S1B9181	12/11/00
02	EE03G	71954001	S1B9183	12/11/00
03	EE03H	71954002	S1B9184	12/11/00
04	EE03R	71954003	S1B9185	12/11/00
05	EE03W	71954004	S1B9186	12/12/00
06	EE03X	71954005	S1B9187	12/12/00
07	EE03Y	71954006	S1B9188	12/12/00
08	EE03Q	71954007	S1B9189	12/12/00
09	EE03Z	71954008	S1B9190	12/12/00
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COMMENTS: _____

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1D

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1212-BW1 Date Extracted: 12/12/00

Lab File ID: S1B9220 Date Analyzed: 12/13/00

Instrument ID: S1 Time Analyzed : 1151

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES and LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE03QRE	71954007RE	S1B9221	12/13/00
02				
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COMMENTS: _____

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1130-BW1 Date Received: _____

Lab File ID: S1B9180 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1130-BW1 Date Received: _____

Lab File ID: S1B9180 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1130-BW1 Date Received: _____

Lab File ID: S1B9180 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1D

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1212-BW1 Date Received: _____

Lab File ID: S1B9220 Date Extracted: 12/12/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/13/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1D

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1212-BW1 Date Received: _____

Lab File ID: S1B9220 Date Extracted: 12/12/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/13/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1D

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1212-BW1 Date Received: _____

Lab File ID: S1B9220 Date Extracted: 12/12/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/13/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.				
2.				
3.				
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS1A

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1130-LW1 Date Received: _____

Lab File ID: S1B9181 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	21	
111-44-4	bis(-2-Chloroethyl)Ether	13	
95-57-8	2-Chlorophenol	24	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	12	
67-72-1	Hexachloroethane	12	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	13	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	13	
106-47-8	4-Chloroaniline	19	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	22	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS1A

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: S1130-LW1 Date Received: _____

Lab File ID: S1B9181 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	13	
84-66-2	Diethylphthalate	14	
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	13	
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	14	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	11	
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03G

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954001 Date Received: 11/30/00

Lab File ID: S1B9183 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03G

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954001 Date Received: 11/30/00

Lab File ID: S1B9183 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE03G

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954001 Date Received: 11/30/00

Lab File ID: S1B9183 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	UNKNOWN	4.25	6	~~JB~~ 51 12/2
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G202

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE03H

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954002 Date Received: 11/30/00

Lab File ID: S1B9184 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03H

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954002 Date Received: 11/30/00

Lab File ID: S1B9184 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

G-202

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE03H

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954002 Date Received: 11/30/00

Lab File ID: S1B9184 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Q

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007 Date Received: 11/30/00

Lab File ID: S1B9189 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Q

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007 Date Received: 11/30/00

Lab File ID: S1B9189 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE03Q

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007 Date Received: 11/30/00

Lab File ID: S1B9189 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	UNKNOWN	3.82	9	JB
2.	UNKNOWN	3.98	4	J
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EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE03QRE

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007RE Date Received: 11/30/00

Lab File ID: S1B9221 Date Extracted: 12/12/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/13/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03QRE

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007RE Date Received: 11/30/00

Lab File ID: S1B9221 Date Extracted: 12/12/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/13/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE03QRE

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007RE Date Received: 11/30/00

Lab File ID: S1B9221 Date Extracted: 12/12/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/13/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03R

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954003 Date Received: 11/30/00

Lab File ID: S1B9185 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

G-207

EPA SAMPLE NO.

EE03R

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954003 Date Received: 11/30/00

Lab File ID: S1B9185 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

EE03R

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954003 Date Received: 11/30/00

Lab File ID: S1B9185 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/11/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.				
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03W

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954004 Date Received: 11/30/00

Lab File ID: S1B9186 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03W

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954004 Date Received: 11/30/00

Lab File ID: S1B9186 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03X

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954005 Date Received: 11/30/00

Lab File ID: S1B9187 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE03W

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954004 Date Received: 11/30/00

Lab File ID: S1B9186 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.				
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1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03X

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954005 Date Received: 11/30/00

Lab File ID: S1B9187 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE03X

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954005 Date Received: 11/30/00

Lab File ID: S1B9187 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.				
2.				
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Y

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954006 Date Received: 11/30/00

Lab File ID: S1B9188 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Y

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954006 Date Received: 11/30/00

Lab File ID: S1B9188 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE03Z

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954008 Date Received: 11/30/00

Lab File ID: S1B9190 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	UNKNOWN	3.99	2	J
2.				
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G-205

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Z

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954008 Date Received: 11/30/00

Lab File ID: S1B9190 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	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	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Z

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954008 Date Received: 11/30/00

Lab File ID: S1B9190 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE03Y

Lab Name: MITKEM CORPORATION Contract: 68-D-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954006 Date Received: 11/30/00

Lab File ID: S1B9188 Date Extracted: 11/30/00

Sample Volume: 1000.00 (mL) Date Analyzed: 12/12/00

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1. 33966-50-6	2-BUTANAMINE, (.+/-.)-	3.37	17	NJ
2.				
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2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): DB-608 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	99	10	105	95			0
02	EE03G	138	82	112	100			0
03	EE03H	120	86	112	103			0
04	EE03R	117	87	103	96			0
05	EE03W	129	82	104	96			0
06	EE03X	145	102	116	107			0
07	EE03Q	139	82	101	96			0
08	PLCS01	129	70	94	87			0
09	EE03Y	125	82	94	87			0
10	EE03Z	144	79	106	99			0
11								
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QC LIMITS

		%REC
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 CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: P1130-LW1 LCS Lot No.:

LCS Aliquot: 1000 (uL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

Instrument ID(1): E2 GC Column(1):DB-608 ID:0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	86.6	87	50-120
Heptachlor epoxide	100	87.8	88	50-150
Dieldrin	200	194.0	97	30-130
4,4'-DDE	200	190.0	95	50-150
Endrin	200	208.0	104	50-120
Endosulfan sulfate	200	153.0	77	50-120
gamma-Chlordane	100	92.1	92	30-130

Instrument ID(2): E2 GC Column(2):DB-608 ID:0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	89.6	90	50-120
Heptachlor epoxide	100	87.3	87	50-150
Dieldrin	200	194.0	97	30-130
4,4'-DDE	200	193.0	96	50-150
Endrin	200	210.0	105	50-120
Endosulfan sulfate	200	206.0	103	50-120
gamma-Chlordane	100	85.6	86	30-130

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.
LCS Recovery: 14 outside limits out of 14 total.

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Date Extracted: 11/30/00 Lab Sample ID: P1130-BW1

Date Analyzed (1): 12/06/00 Date Analyzed (2): 12/06/00

Time Analyzed (1): 1635 Time Analyzed (2): 1635

Instrument ID (1): E2 Instrument ID (2): E2

GC Column (1): DB-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) CONT

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EE03G	71954001	12/06/00	12/06/00
02	EE03H	71954002	12/06/00	12/06/00
03	EE03R	71954003	12/06/00	12/06/00
04	EE03W	71954004	12/06/00	12/06/00
05	EE03X	71954005	12/06/00	12/06/00
06	EE03Q	71954007	12/06/00	12/06/00
07	PLCS01	P1130-LW1	12/07/00	12/07/00
08	EE03Y	71954006	12/07/00	12/07/00
09	EE03Z	71954008	12/07/00	12/07/00
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COMMENTS:

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: P1130-BW1 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03G

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954001 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03H

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954002 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS01(1)

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: P1130-LW1 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/07/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.088	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.19	
72-55-9	4,4'-DDE	0.19	
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	0.15	
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	0.092	
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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS01(2)

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: P1130-LW1 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/07/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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)	0.090	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.087	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.19	
72-55-9	4,4'-DDE	0.19	
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	0.21	
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	0.086	
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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Q

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954007 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03R

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954003 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03W

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954004 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03X

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954005 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/06/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Y

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954006 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/07/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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 CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE03Z

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 28771 SAS No.: SDG No.: EE03G

Lab Sample ID: 71954008 Date Received: 11/30/00

Sample Volume: 1000.00 (mL) Date Extracted: 11/30/00

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/07/00

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (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 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 1 5 2000

Subject: Review of Region 5 Data for Rockford Sand and Gravel Code:05ZZ

From: ESAT, Chemist
Region 5 Central Regional Laboratory

To Bob Casper
IEPA

Attached are the results for Site: Rockford Sand and Gravel Code:05ZZ
CRL Data Set Number: 20010011
for analyses of : ICP Metals
Results are reported for sample numbers: 2001IE04S01, 2001IE04D01, 2001IE04S02, 2001IE04S03, 2001IE04S04, 2001IE04S05, 2001IE04S06 and 2001IE04R01

Results Status
(X) Acceptable for Use for most Metals
(X) Data Qualified, but Acceptable for use where flagged "J" due to baseline drift or contamination
( ) Data Unacceptable for Use

Sylvia Griffin DEC 1 5 2000

CRL Data Management Coordinator and Date Received

Date Transmitted: DEC 1 5 2000

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

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:

20010011

501020

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH Superfund SAMPLE DATE 11/28-29/00 LAB ARRIVAL DATE 12/1/2000 DUE DATE 1/2/2001

DU NUMBER 501020 DATA SET NUMBER 2001 0011 STUDY Rockford Sandpit Gravel PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET181	TOTAL METALS WATER PB UG/L MET1191	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
2001IE04S01	G201 5-120312	X	X	X	X	X	X
2001IE04D01	G202 5-120699	X	X	X	X	X	X
2001IE04S02	5-120191-192/5-120193 G203MS/MSD	X	X	X	X	X	X
2001IE04S03	G204 5-120186	X	X	X	X	X	X
2001IE04S04	G205 5-120182	X	X	X	X	X	X
2001IE04S05	G206 5-120200	X	X	X	X	X	X
2001IE04S06	G207 5-120305	X	X	X	X	X	X
2001IE04R01	G208 5-120173	X	X	X	X	X	X

Lockheed Martin Services Group
Environmental Services & Technologies Region 5
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LOCKHEED MARTIN

Date: December 8, 2000

To: John V. Morris, EPA WAM

From: Richard Dilg, ESAT Chemist RD 12-14-00

Thru. Ziyad Rajabi, ESAT Team Manager

Copies John Ganz, ESAT Inorganic Group Leader
Jay Thakkar, ESAT Contract RPO

Ref TDF# 5104-310
WA# 05-00-4-04
Contract # 68D60002

SUBJECT: Data Set SF20010011: ICP Analyses for Rockford Sand and Gravel samples using CRL Method **200.7**

Attached is the deliverable for Data Set SF20010011 for ICP analysis of 8 water samples.

If you have any question please feel free to contact ESAT.

(KX) 10-14-(

Method Number: _200.7_____ Site Name: Rockford Sand and Gravel
Date Generated: December 8, 2000 _ Work Unit Number: 05-00-4-04_
Author: _R.Dilg,Lockheed-ESAT_____ TDF Number: 5104-310_____
Charge Number: ESE-51-061____
Batch ID No.: 20010011 _____
Parameter: ICP _____

ICP NARRATIVE

This narrative covers the analysis of 8 water samples from the named site sampled for ICP metals analysis.

Sample Nos.	Sample Station ID's (Using sample label info)	Sample collected	Analysis dates
2001IE04S01	G201 Potable Well	11-28-2000	12-06-2000
2001IE04D01	G202 Potable Well	11-28-2000	12-06-2000
2001IE04S02	G203 Potable Well	11-29-2000	12-06-2000
2001IE04S03	G204 Potable Well	11-29-2000	12-06-2000
2001IE04S04	G205 Potable Well	11-29-2000	12-06-2000
2001IE04S05	G206 Potable Well	11-29-2000	12-06-2000
2001IE04S06	G207 Potable Well	11-29-2000	12-06-2000
2001IE04R01	G208 Field QC	11-29-2000	12-06-2000

Routine CRL hot block (water) digestion procedures were used to prepare the water samples for ICP analysis. The digested samples were analyzed using the Optima 3300 DV ICP unit using analysis run method water_080300_ESAT. Optima 3300 DV ICP results were stored to file 20010011 12062000.

ICP RUN RESULTS

During the course of the analysis run, the printer ink supply ran out resulting in many illegible pages being "printed". Because of this, after replacing the printer ink cartridge, the reprocessing feature of the WinLab software was invoked after the analysis run was completed so that a set of legible printed results could be obtained. This reprocessed reprint of the raw analysis run data is being included as part of the deliverables for this (20010011) data case rather than the illegible set of original raw data printouts.

Analyte mdl's determined and rl values calculated earlier in the year for ESAT analysis work for the Optima 3300 DV were used. The calculated rl values were used in reporting sample analysis results for this data case.

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ICP RUN RESULTS - continued

An ambiguously stated flag in SOP HK005 is the "B" flag. Although a "more than 10 times" rule was mentioned for blanks for considering data as useable, it was not clearly stated whether or not the "B" flag should be used. As a matter of fact, to this analyst, from reading the wording used in the SOP the flow or intent seems to imply (but is not specifically stated to do so) to always use the "B" flag regardless of the sample level if a control audit blank is above an MDL level ! This analyst used the "B" flag for those analyte cases where the MDL value was exceeded but the 10 times value was not exceeded.

Also, to better help understand the use of the "B" flag, let it be pointed out to the data user that the "B" flag is by definition a warning flag only. For estimated data, an additional flag (either an "M" or a "J" flag) is used to denote that the flagged result is in fact estimated.

Another bit of ambiguity arises because of consequences of trying to implement SOP METALS 003 and SOP HK005 for the same data set. Because analyte results are to be reported using RL values rather than MDL values (SOP HK005) it does seem like "one is shooting one's self in the foot" to flag duplicate analysis digestion audit checks for low valued analyte results that exceed ± MDL criteria rather than ± RL valued criteria. For the sake of consistency, the analyst elected to mitigate this apparent inconsistency by overriding and supplanting the SOP METALS 003 "± MDL" based flagging directive by using a "± RL" flagging directive instead for low level duplicate differences that would be used to appropriately evaluate duplicate laboratory analysis precision.

Analysis RUN 1247 - Optima 3300 DV

29 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.

The following analytes will either not be addressed or only minimally mentioned in this case narrative:

Sn, Tl, As, Se, Sb, Mo, Pb, Cd, Ti, Y, Sr, Li

The following lists the case pertinent out-of-control QC audit check results:

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Analysis RUN 1247 - Optima 3300 DV (continued)

RUN 1247:

Blanks:	Instr blk 1:	Be313	- 0.2	µg/L
		Co228	- 0.42	"
	Digest blk 1:	Be313	- 0.2	"
		Cu327	0.72	"
		Fe259	12.4	"
		Na589	137.4	"
		Ni231	2.42	"
		Pb220	- 2.29	"
		V 310	- 5.55	"
		Zn213	11.25	"
	Digest blk 2:	Ag328	0.46	"
		Be313	- 0.29	"
		Cd226	- 0.13	"
		Na589	117.8	"
		Ni231	1.86	"
		V 310	- 6.67	"
		Zn213	6.91	"
	Instr blk 2:	Al396	16.75	"
		Be313	- 0.26	"
		Cd226	- 0.34	"
		Co228	- 0.62	"
		Fe259	- 3.86	"
		Na589	79.44	"
		Pb220	- 2.66	"
		Sb206	4.75	"
		V 310	- 11.15	"

Mid range: LCM1's:	LCM1-1:	Ag328	*	
QC's		Na589	11.37	% deviation
	LCM1-2:	Ag328	*	
		Na589	12.42	% deviation

* alternate QC audit check used to monitor this analyte

High AQC's: 1st Hi AQC:	Zn213	- 14.24	% deviation
2nd Hi AQC:	Zn213	- 11.82	"

Laboratory duplicate:
(2001IE04S02) Fe259 dup. diff. = 15.8 µg/L

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12-14-0

Analysis RUN 1247 - Optima 3300 DV (continued)

RL check Soln: RL 1:
(See paragraphs below regarding RL's)
RL 2:

For the rl check audit, the reporting limit (rl) check solution was used for the analysis runs. Since many of the ESAT calculated rl values were close to the CRL rl values, the CRL RL check solution was used as the check solution for the Optima 3300 DV analysis run.

Presently no "control" actions are associated with the observed rl analyte values actually determined during the analysis runs. RL check solution values currently are being analyzed for purposes of generating a benchmark set of values which can be used to monitor the appropriateness of any given RL level of analyte concentration.

As, Sb, Cd, Pb, Se, and Tl sample results were not reported by ICP; see GFAA results for these analytes.

For Al, all sample results except for 2001IE04R01 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. All sample results except for 2001IE04R01 were also flagged "J" indicating possible high bias due to the blank contamination just noted and are estimated.

For Cu, the sample result for 2001IE04S03 was flagged "B" indicating it may have been affected by possible contamination indicated by blank analysis data. The sample result for 2001IE04S03 was also flagged "J" indicating possible high bias due to the blank contamination just noted and is estimated.

For Ca, the sample result for 2001IE04R01 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this.

For Fe, sample results for 2001IE04S03 and S04 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this. Sample results for 2001IE04S01, D01, S02, S03, S04, and S06 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. Sample results for 2001IE04S01, D01, S02, and S06 were also flagged "J" indicating possible high bias due to the blank contamination just noted and are estimated. All sample results are flagged "J" because of poor laboratory analytical precision and are estimated.

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Analysis RUN 1247 - Optima 3300 DV (continued)

For K, the sample result for 2001IE04R01 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this.

For Mg, the sample result for 2001IE04R01 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this.

For Mn, sample results for 2001IE04S01 and D01 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this.

For Ni, sample results for 2001IE04S01, D01, S03, S05, and S06 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this. Sample results for 2001IE04S01, D01, S02, S03, S04, S05, and S06 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. Sample results for 2001IE03S02 and S04 were also flagged "J" indicating possible high bias due to the blank contamination just noted and are estimated.

For Na, positive bias was noted throughout the analysis run which led to biased high blank values and to high LCM1 check audit values. There are probably several sources giving rise to the bias. No attempts were made to correct any biased responses either during or after the analysis run. The bias was, however, relatively low and did not significantly affect any Na values above about 2 to 4 mg/L Na such as those for the Hi AQC check audits and for the sample results for 2001IE04S01 through S06 and D01. The bias was significant enough to affect the sample result for 2001IE04R01 which was flagged "B" indicating it may have been affected by possible high bias (lumped collectively as "contamination") indicated by blank analysis data. The sample result for 2001IE04R01 was also flagged "J", indicating possible high bias due to both the blank contamination just noted and also the high LCM1 values, and is estimated.

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Analysis RUN 1247 - Optima 3300 DV (continued)

For Zn, the sample result for 2001IE04S04 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this. Sample results for 2001IE04S01, D01, S03, S04, S05, and S06 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. The sample results for 2001IE04S01, D01, S03, S05, S06 were also flagged "J" indicating possible high bias due to the blank contamination just noted and are estimated. Also for Zn, the LCM1 QA/QC check audit was within control limits and would be the "governing" check for the Zn levels encountered for the samples in this data set rather than the Hi AQC QA/QC check standard which indicated a low bias at the Zn levels that would be found near that for the Hi AQC check standard.

Other Comments

Samples 2001IE04S01 and D01 are designated field duplicates; the analysis results for these two samples do correlate well.

Low levels of Ca, Mg, K, and Na were found in the field blank (sample 2001IE04R01). Analysis of the undigested field blank sample indicated the presence of Mg and Na but not for Ca or K. For Ca, Mg, and Na, the levels were low enough as to not significantly affect the remaining sample results for these analytes. Also, the K level was low enough as to not significantly affect the remaining K sample results, except for 2001IE04S03. However, no sample analysis results were qualified on the basis of field QC results.

Per discussion with Dr. J. V. Morris, no dilutions were made because of current ambiguities in the CRL Metals 003 SOP regarding upper limits of linearity for analytes such as Ca, Mg, and Na sample results.

R5CRL Files

The following pathways were used for storing analysis information to the R5CRL file server for this data set:

Optima 3300 DV results:

```
(Vol 3 on 'R5crl')[H ]\metals\Rdilg\20010011\Icp\Optima 3300DV\Methods_ESAT
(Vol 3 on 'R5crl')[H:]\metals\Rdilg\20010011\Icp\Optima 3300DV\narrative
(Vol 3 on 'R5crl')[H:]\metals\Rdilg\20010011\Icp\Optima 3300DV\Results_ESAT
(Vol 3 on 'R5crl')[H:]\metals\Rdilg\20010011\Icp\Optima 3300DV\SIFs_ESAT
(Vol 3 on 'R5crl')[H ]\metals\Rdilg\20010011\Icp\Optima 3300DV\SS processed data
```

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION		SAMPLE BATCH ID	20010011
LABORATORY REGION 5 CRL		SAMPLE FACILITY	Rockford Sand and Gravel
SAMPLE	2001IE04S01	ANALYZED	06-Dec-00
STATION	G201		

COMPOUND	AMOUNT				(Units)
Aluminum	61.5		B	J	(ug/L)
Barium	209				(ug/L)
Beryllium	0.3	U			(ug/L)
Calcium	92600				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	14 1				(ug/L)
Iron	18 2		B	J	(ug/L)
Magnesium	40200				(ug/L)
Manganese	0.9	M			(ug/L)
Nickel	1 3	M	B		(ug/L)
Potassium	3090				(ug/L)
Silver	1	U			(ug/L)
Sodium	53100				(ug/L)
Vanadium	9	U			(ug/L)
Zinc	65 4		B	J	(ug/L)

ANALYZED BY 12-8-00

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION		SAMPLE BATCH ID	20010011
LABORATORY REGION 5 CRL		SAMPLE FACILITY	Rockford Sand and Gravel
SAMPLE	2001IE04D01	ANALYZED	06-Dec-00
STATION	G202		

COMPOUND	AMOUNT				(Units)
Aluminum	68 7		B	J	(ug/L)
Barium	207				(ug/L)
Beryllium	0 3	U			(ug/L)
Calcium	92700				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	12 5				(ug/L)
Iron	25 8		B	J	(ug/L)
Magnesium	40200				(ug/L)
Manganese	1	M			(ug/L)
Nickel	1	M	B		(ug/L)
Potassium	3190				(ug/L)
Silver	1	U			(ug/L)
Sodium	54000				(ug/L)
Vanadium	9	U			(ug/L)
Zinc	68.9		B	J	(ug/L)

ANALYZED BY: RD 12-8-00

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION		SAMPLE BATCH ID	20010011
LABORATORY REGION 5 CRL		SAMPLE FACILITY	Rockford Sand and Gravel
SAMPLE	2001IE04S02	ANALYZED	06-Dec-00
STATION	G203		

COMPOUND	AMOUNT			(Units)
Aluminum	73 2	B	J	(ug/L)
Barium	69 2			(ug/L)
Beryllium	0 3 U			(ug/L)
Calcium	116000			(ug/L)
Chromium	3 U			(ug/L)
Cobalt	1 U			(ug/L)
Copper	40 2			(ug/L)
Iron	26.1	B	J	(ug/L)
Magnesium	52000			(ug/L)
Manganese	2 3			(ug/L)
Nickel	2 6	B	J	(ug/L)
Potassium	2790			(ug/L)
Silver	1 U			(ug/L)
Sodium	18500			(ug/L)
Vanadium	9 U			(ug/L)
Zinc	173			(ug/L)

ANALYZED BY RR 12-8-00

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION:

SAMPLE BATCH ID 20010011

LABORATORY. REGION 5 CRL

SAMPLE FACILITY Rockford Sand and Gravel

SAMPLE 2001IE04S03

ANALYZED 06-Dec-00

STATION G204

COMPOUND	AMOUNT				(Units)
Aluminum	66 8		B	J	(ug/L)
Barium	43 9				(ug/L)
Beryllium	0 3	U			(ug/L)
Calcium	84600				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	3 7		B	J	(ug/L)
Iron	6 2	M	B	J	(ug/L)
Magnesium	40700				(ug/L)
Manganese	2	U			(ug/L)
Nickel	0 9	M	B		(ug/L)
Potassium	965				(ug/L)
Silver	1	U			(ug/L)
Sodium	15700				(ug/L)
Vanadium	9	U			(ug/L)
Zinc	40 8		B	J	(ug/L)

ANALYZED BY KD 12-14-00

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION		SAMPLE BATCH ID	20010011
LABORATORY REGION 5 CRL		SAMPLE FACILITY	Rockford Sand and Gravel
SAMPLE	2001IE04S04	ANALYZED	06-Dec-00
STATION	G205		

COMPOUND	AMOUNT				(Units)
Aluminum	65 3		B	J	(ug/L)
Barium	71 9				(ug/L)
Beryllium	0 3	U			(ug/L)
Calcium	94000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	27 5				(ug/L)
Iron	4 7	M	B	J	(ug/L)
Magnesium	39900				(ug/L)
Manganese	2	U			(ug/L)
Nickel	5		B	J	(ug/L)
Potassium	2790				(ug/L)
Silver	1	U			(ug/L)
Sodium	50800				(ug/L)
Vanadium	9	U			(ug/L)
Zinc	12 4	M	B		(ug/L)

ANALYZED BY PD 12-14-00

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION		SAMPLE BATCH ID	20010011
LABORATORY REGION 5 CRL		SAMPLE FACILITY	Rockford Sand and Gravel
SAMPLE	2001IE03S05	ANALYZED	06-Dec-00
STATION	G206		

COMPOUND	AMOUNT				(Units)
Aluminum	68 6		B	J	(ug/L)
Barium	140				(ug/L)
Beryllium	0 3	U			(ug/L)
Calcium	105000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	75 8				(ug/L)
Iron	416			J	(ug/L)
Magnesium	42700				(ug/L)
Manganese	22 9				(ug/L)
Nickel	1 7	M	B		(ug/L)
Potassium	2820				(ug/L)
Silver	1	U			(ug/L)
Sodium	49100				(ug/L)
Vanadium	9	U			(ug/L)
Zinc	56 3		B	J	(ug/L)

ANALYZED BY 12-14-00

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION:

SAMPLE BATCH ID 20010011

LABORATORY REGION 5 CRL

SAMPLE FACILITY Rockford Sand and Gravel

SAMPLE. 2001IE04S06

ANALYZED 06-Dec-00

STATION G207

COMPOUND	AMOUNT				(Units)
Aluminum	72		B	J	(ug/L)
Barium	263				(ug/L)
Beryllium	0.3	U			(ug/L)
Calcium	104000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	12 8				(ug/L)
Iron	19 5		B	J	(ug/L)
Magnesium	42400				(ug/L)
Manganese	45 9				(ug/L)
Nickel	0 9	M	B		(ug/L)
Potassium	3180				(ug/L)
Silver	1	U			(ug/L)
Sodium	14000				(ug/L)
Vanadium	9	U			(ug/L)
Zinc	58		B	J	(ug/L)

ANALYZED BY: 12-8-00

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON 07-Dec-00

SAMPLE ORGANIZATION		SAMPLE BATCH ID	20010011
LABORATORY REGION 5 CRL		SAMPLE FACILITY	Rockford Sand and Gravel
SAMPLE	2001IE04R01	ANALYZED	06-Dec-00
STATION	G208 Field QC		

COMPOUND	AMOUNT				(Units)
Aluminum	40	U			(ug/L)
Barium	2	U			(ug/L)
Beryllium	0 3	U			(ug/L)
Calcium	18 8	M			(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	2	U			(ug/L)
Iron	11	U		J	(ug/L)
Magnesium	7 9	M			(ug/L)
Manganese	2	U			(ug/L)
Nickel	2	U			(ug/L)
Potassium	356	M			(ug/L)
Silver	1	U			(ug/L)
Sodium	336		B	J	(ug/L)
Vanadium	9	U			(ug/L)
Zinc	25	U			(ug/L)

ANALYZED BY 12-14-00

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated *B*lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
D	This flag is used when the analyte concentration results from a required *D*ilution of the sample, extract or digestate.
E	This flag is used to identify analyte concentrations *E*xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. The reported value is considered to be estimated
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results (*J* is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL *M*ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is estimated due to its presence in this concentration range.
N	This flag applies to GC/MS Te*N*tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or *Q*uantitation problems, but are confirmed to be qualitatively present in the sample No value is reported with this qualification flag.
R	This flag applies to analyte data that are *R*ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag
U	This flag in used when the analyte was analyzed but *U*ndetected in the sample. The CRL RL for the analyte accompanies this flag As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

4/11/00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 0 3 2001

Subject: Review of Region 5 Data for Rockford Sand and Gravel Code:05ZZ

From: ESAT , Chemist
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: Rockford Sand and Gravel Code:05ZZ
CRL Data Set Number: 20010011
for analyses of : Antimony, Arsenic, Cadmium, Lead, Selenium and Thallium
Results are reported for sample numbers: 2001IE04S01, 2001IE04D01, 2001IE04S02, 2001IE04S03, 2001IE04S04, 2001IE04S05, 2001IE04S06 and 2001IE04R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
JAN 0 5 2001
IEPA-BOL-FSRS

Sylvia Griffin JAN 0 3 2001

CRL Data Management Coordinator and Date Received

Date Transmitted: JAN 0 3 2001

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

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:

Method: GFAA for Water
Site: Rockford Sand and Gravel
Date: December 26, 2000
Prepared by: Stephen Connet

TDF: 5104-310
PWO: ESE51061
WAD: 05-00-4-04
Data Set: 20010011

NARRATIVE

Eight (8) water samples from the Rockford Sand and Gravel site [2001IE04S01 (G201, MEE03G), D01 (G202, MEE03H), S02 (G203, MEE03Q), S03 (G204, MEE03R), S04 (G205, MEE03Z), S05 (G206, MEE03W), S06 (G207, MEE03X), R01 (G208, MEE03Y)] were collected on November 28-29, 2000 and were received properly preserved by CRL on December 1, 2000. The samples were submitted to ESAT for analysis of antimony, arsenic, cadmium, lead, selenium, and thallium by GFAA.

The samples were digested following standard CRL 200.2 hot block water digestion protocols on December 4, 2000 (digestion batch 1247). Analyses were performed using 200.9 methods on the SIMAA 6000 using multi-element programs except for thallium (run singly on the SIMAA 6000) and antimony (run on 5100W).

The evaluation of the control limits criteria for analytical spike recoveries were changed according to J. Morris. To allow for biases within individual analytical runs, control limits will be re-evaluated every 10 analytical runs instead of every 20 points. Until such a time as the previous limits can be re-evaluated, the acceptance range for analytical spike recoveries is 90 to 110 % recovery. This caused several thallium results which would have been outside previous ESAT limits to be acceptable. Samples S01 and D01 appear to be field duplicates. The field duplicate difference for arsenic was greater than the MDL. No qualifications are made for field duplicates. All QC were within limits; all sample results are acceptable.

Non-detect results are reported to the reporting limit (RL). Results between the method detection limit (MDL) and the RL are reported as the instrument value with an "M" flag. Where appropriate, reported values are dilution corrected and results are flagged "D".

Analytical results were stored in the following database files:
H:\r5crl\vol3\metals\sconnet\20010011\5100W-Sb\122100 for antimony,
H:\r5crl\vol3\metals\sconnet\20010011\6000-AsSe\122100 for arsenic and selenium,
H:\r5crl\vol3\metals\sconnet\20010011\6000-CdPb\122200 for cadmium and lead,
H:\r5crl\vol3\metals\sconnet\20010011\6000-Tl\122200A and 122600 for thallium.

Raw data for 20010013 antimony are included with this data package.

This narrative and the Results/QC Summary spreadsheet are stored in:
H:\r5crl\vol3\metals\sconnet\20010011\Reports\GFAA Narrative.wpd
H:\r5crl\vol3\metals\sconnet\20010011\Reports\QCReport.wk4

Since RLIMS was unavailable, the AA metals analysis results are reported in a Lotus spreadsheet only. Time will be necessary in the future to enter all analysis results into RLIMS.

12 26 00

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: METALS

DIVISION/BRANCH	**SUPERFUND**	STUDY:	**ROCKFORD SAND & GRAVEL**	SAMPLING DATE:	**11/28-29/00**
DU NUMBER.	**50102D**	PRIORITY	**ROUTINE**	LAB ARRIVAL DATE:	**12/01/00**
DATASET NUMBER	**20010011**	LABORATORY	**ESAT**	DUE DATE:	**01/02/01**

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER Antimony (ug/L)	WATER Arsenic (ug/L)	WATER Cadmium (ug/L)	WATER Lead (ug/L)	WATER Selenium (ug/L)	WATER Thallium (ug/L)
1	**2001IE04S01**	G201, MEE03G	14UD	6UD	0.3U	2U	4U	4UD
2	**2001IE04D01**	G202, MEE03H	7U	10UD	0.3U	2U	4U	4UD
3	**2001IE04S02**	G203, MEE03Q	7U	10UD	0.3M	2MD	8UD	6UD
4	**2001IE04S03**	G204, MEE03R	7U	10UD	0.3U	2U	4U	4UD
5	**2001IE04S04**	G205, MEE03Z	7U	10UD	0.3U	4UD	4U	4UD
6	**2001IE04S05**	G206, MEE03W	14UD	10UD	0.3U	20D	4U	4UD
7	**2001IE04S06**	G207, MEE03X	7U	10UD	0.3U	2U	8UD	4UD
8	**2001IE04R01**	G208, MEE03Y	7U	2U	0.3U	2U	4U	2U
	(UNDILUTED)	Reporting Limit	7	2	0.3	2	4	2
DATE OF ANALYSIS			12/21/00	12/21/00	12/22/00	12/22/00	12/21/00	12/22,26/00
ANALYST		12-28-00	S. Connet	S. Connet	S. Connet	S. Connet	S. Connet	S. Connet

Reviewed By: _____ Date: 12-28-2000

2001001 501020

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH SUPERFUND SAMPLE DATE 11/28-29/00 LAB ARRIVAL DATE 12/1/2000 DUE DATE 1/2/2001

DU NUMBER 501020 DATA SET NUMBER 2001 001 STUDY ROCKFORD SAND + GRAVEL PRIORITY N CONTRACTOR IEPA

CHL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET181	TOTAL METALS WATER PB UG/L MET1191	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
2001IE04S01	G201 5-120312	X	X	X	X	X	X
2001IE04D01	G202 5-120699	X	X	X	X	X	X
2001IE04S02	5-120191-192/5-120193 G203 MS/MSD	X	X	X	X	X	X
2001IE04S03	G204 5-120186	X	X	X	X	X	X
2001IE04S04	G205 5-120182	X	X	X	X	X	X
2001IE04S05	G206 5-120200	X	X	X	X	X	X
2001IE04S06	G207 5-120305	X	X	X	X	X	X
2001IE04R01	G208 5-120173	X	X	X	X	X	X

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH: SUPERFUND SAMPLING DATE: 11/28-29/00 LAB ARRIVAL DATE: 12/1/2000 DUE DATE: 1/2/2001

NUMBER: 5010217 DATASET NUMBER: 2001001 STUDY: ROCK FORD SAND MINE GRAVEL PRIORITY: N CONTRACTOR: IEPA

LOG NUMBER	SAMPLE DESCRIPTION	MATRIX: WATER TEST: CD UNITS: UG/L HL1235826	MATRIX: WATER TEST: Hg UNITS: UG/L HL1235826	MATRIX: TEST: UNITS: HL1235826	MATRIX: TEST: UNITS: HL1235826	MATRIX: TEST: UNITS: HL1235826	
1IE04							
S01	G201	X	X	MEE03G			5120312
D01	G202	X	X	MEE03H			5120699
S02	G203 MS/MSD	X	X	MEE03Q			5120191-92-93
S03	G204	X	X	MEE03R			5120186
S04	G205	X	X	MEE03Z			5120182
S05	G206	X	X	MEE03W			5120200
S06	G207	X	X	MEE03X			5120305
R01	G208	X	X	MEE03Y			5120173

CRL V.2: 3

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance
D	This flag is used when the analyte concentration results from a required ***D***ilution of the sample, extract or digestate.
E	This flag is used to identify analyte concentrations ***E***xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate The reported value is considered to be estimated
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results (*J* is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL ***M***ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is estimated due to its presence in this concentration range.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems No other qualification flags are reported for this analyte No value is reported with this qualification flag
U	This flag in used when the analyte was analyzed but ***U***ndetected in the sample The CRL RL for the analyte accompanies this flag As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume

4/11/00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 2 7 2000

Subject: Review of Region 5 Data for Rockford Sand and Gravel Code:05ZZ

From: ESAT , Chemist
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: Rockford Sand and Gravel Code:05ZZ
CRL Data Set Number: 20010011
for analyses of : Mercury
Results are reported for sample numbers: 2001IE04S01, 2001IE04D01, 2001IE04S02, 2001IE04S03, 2001IE04S04, 2001IE04S05, 2001IE04S06 and 2001IE04R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
DEC 2 8 2000
IEPA-BOL-FSRS

Sylvia Griffin DEC 2 7 2000

CRL Data Management Coordinator and Date Received

Date Transmitted: DEC 2 7 2000

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

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:

Parameter: Mercury
Method: 245.2 *DNS (WATER)
Site: Rockford Sand and Gravel
Date: December 20, 2000
Prepared by: Stephen Connet

TDF: 5104-310
PWO: ESE51061
WAD: 05-00-4-04
Data Set: 20010011

NARRATIVE

Eight (8) water samples from the Rockford Sand and Gravel site [2001IE04S01 (G201, MEE03G), D01 (G202, MEE03H), S02 (G203, MEE03Q), S03 (G204, MEE03R), S04 (G205, MEE03Z), S05 (G206, MEE03W), S06 (G207, MEE03X), R01 (G208, MEE03Y)] were collected on November 28-29, 2000 and were received properly preserved by CRL on December 1, 2000. The samples were assigned to ESAT for mercury analysis.

Due to continuing problems with the autoprep station, the samples were manually digested with samples from data set 20010013 and 20010014 on December 19, 2000. Hydroxylamine was added and the samples analyzed with samples from data set 20010013 and 20010014 on December 20, 2000. All digestion tubes were capped during digestion.

Non-detect results are reported to the reporting limit (RL).

All QC audits were in control; all sample results are acceptable. Raw data includes results for data packages 20010013 and 20010014.

This narrative, the instrument run file, QC summary form and results spreadsheet are stored in:
I:\r5crl\vol1\Min_nut\Sconnet\PSAMercury\HgWATER\20010011\20010011_nar.wpd
I:\r5crl\vol1\Min_nut\Sconnet\PSAMercury\HgWATER\20010011\122000.res
I:\r5crl\vol1\Min_nut\Sconnet\PSAMercury\HgWATER\20010011\QC Summary.wpd
I:\r5crl\vol1\Min_nut\Sconnet\PSAMercury\HgWATER\20010011\20010011_res.wpd

Since RLIMS was unavailable, the results are reported in a word-processing document only. Time will be necessary in the future to enter all results into RLIMS.

12-20-00

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: MERCURY

DIVISION/BRANCH: SUPERFUND **SAMPLING DATE:** 11/28-29/00 **LAB ARRIVAL DATE:** 12/1/00 **DUE DATE:** 01/02/01
DU NUMBER: 50102D **DATASET NUMBER:** 20010011 **STUDY:** Rockford Sand & Gravel **PRIORITY:** Routine **LABORATORY :** ESAT

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER MERCURY (μg/L)	FLAGS
1	2001IE04S01	G201, MEE03G	0.5	U
2	2001IE04D01	G202, MEE03H	0.5	U
3	2001IE04S02	G203, MEE03Q	0.5	U
4	2001IE04S03	G204, MEE03R	0.5	U
5	2001IE04S04	G205, MEE03Z	0.5	U
6	2001IE04S05	G206, MEE03W	0.5	U
7	2001IE04S06	G207, MEE03X	0.5	U
8	2001IE04R01	G208, MEE03Y	0.5	U
	Reporting Limit		0.5	
DATE OF ANALYSIS			12/20/00	
ANALYST		12-20-00	S. Connet	

Reviewed by: JG Date: 12/21/2000

2001001

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM METALS

DIVISION/BRANCH SUPERFUND SAMPLING DATE 11/28-29/00 LAB ARRIVAL DATE 12/1/2000 DUE DATE 1/2/2001

DU NUMBER 5010217 DATASET NUMBER 2001001 STUDY ROCKFORD SAND AND GRAVEL PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	MATRIX WATER TEST CD UNITS UG/L HL1235826	MATRIX WATER TEST Hg UNITS UG/L HL1235826	MATRIX TEST UNITS HL1235826	MATRIX TEST UNITS HL1235826	MATRIX TEST UNITS HL1235826	
2001IEB04							
S01	G201	X	X	MEE03G			5120312
D01	G202	X	X	MEE03H			5120699
S02	G203 MS/MSD	X	X	MEE03Q			5120191-92-93
S03	G204	X	X	MEE03R			5120186
S04	G205	X	X	MEE03Z			5120182
S05	G206	X	X	MEE03W			5120200
S06	G207	X	X	MEE03X			5120305
R01	G208	X	X	MEE03Y			5120173

CRL V.. 85

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
D	This flag is used when the analyte concentration results from a required ***D***ilution of the sample, extract or digestate
E	This flag is used to identify analyte concentrations ***E***xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. The reported value is considered to be estimated
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL ***M***ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is estimated due to its presence in this concentration range.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag
U	This flag in used when the analyte was analyzed but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

4/11/00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 1 5 2000

Subject: Review of Region 5 Data for Rockford Sand and Gravel Code:05ZZ

From: ESAT, Chemist
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: Rockford Sand and Gravel Code:05ZZ
CRL Data Set Number: 20010011
for analyses of : Cyanide
Results are reported for sample numbers: 2001IE04S01, 2001IE04D01, 2001IE04S02, 2001IE04S03, 2001IE04S04, 2001IE04S05, 2001IE04S06 and 2001IE04R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
DEC 1 8 2000
IEPA-BOL-FSRS

Sylvia Griffin DEC 1 5 2000

CRL Data Management Coordinator and Date Received

Date Transmitted: DEC 1 5 2000

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

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:

2001 0011 501021D

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

DIVISION/BRANCH Superfund SAMPLE DATE 11/28-29/00 LAB ARRIVAL DATE 12/1/2000 DUE DATE 1/2/2001

DU NUMBER 501021D DATA SET NUMBER 2001 0011 STUDY Rockford Sand & Gravel PRIORITY N CONTRACTOR IEPH

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 74818	WATER CYANIDE UG CN/L MIN 74919	WATER GROSS ALPHA P CI/L MIN 75020	WATER CR^{+6} UG CR^{+6}/L MIN 74616	WATER MERCURY UG HG/L MIN 74717
2001IE04S01	G201 5-120691		X			
2001IE04D01	G202 5-120700		X			
2001IE04S02	5-120685/5-120194 + G203 MS/MSD 5-120798		X			
2001IE04S03	G204 5-120166		X			
2001IE04S04	G205 5-055051		X			
2001IE04S05	G206 5-120297		X			
2001IE04S06	G207 5-120306		X			
2001IE04R01	G208 5-120174		X			

Method: 335.2NS (Cyanide)
Site: Rockford Sand & Gravel
Date: December 8, 2000
Prepared by: Stephen Connet

TDF: 5104-310
PWO: ESE51061
WAD: 05-00-4-04
Data Set: 20010011

NARRATIVE

Eight (8) water samples from the Rockford Sand and Gravel site [2001IE04S01 (G201, MEE03G), D01 (G202, MEE03H), S02 (G203, MEE03Q), S03 (G204, MEE03R), S04 (G205, MEE03Z), S05 (G206, MEE03W), S06 (G207, MEE03X), R01 (G208, MEE03Y)] were collected on November 28-29, 2000 and were received properly preserved by CRL on December 1, 2000. The samples were assigned to ESAT for cyanide analysis.

The samples were checked with lead acetate and potassium iodide starch papers with negative results. The samples were distilled using the MIDI distillation method on December 8, 2000. The samples were analyzed on December 8, 2000 for cyanide using a Lachat QuickChem AE Autoanalyzer according to CRL methods. The samples were analyzed within the 14-day holding time limit.

All QC audits were in control; all sample results are acceptable. A control sample was diluted 1:1, distilled and analyzed with the sample batch; no criteria have been established for the sample. All results are reported to the reporting limit (8 ug/L).

The narrative, instrument run file, QC summary report and Results spreadsheet are stored in:
I:\r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010011\20010011_nar.wpd
I:\r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010011\20010011.FDT
I \r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010011\QC Summary.wpd
I:\r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010011\20010011_res.wpd

Since RLIMS was unavailable, the results are reported in a word-processing document only. Time will be necessary in the future to enter all results into RLIMS.

12-8-00

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated *B*lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance
D	This flag is used when the analyte concentration results from a required *D*ilution of the sample, extract or digestate
E	This flag is used to identify analyte concentrations *E*xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate The reported value is considered to be estimated
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded This flag accompanies all GC/MS tentatively identified compounds (TICs) This flag also applies to a suspected, unidentified interference This flag is placed on affected detected results as well as non-detected (i e., "U" flagged) results (*J* is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL *M*ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is estimated due to its presence in this concentration range
N	This flag applies to GC/MS Te*N*tatively Identified Compounds (TICs) that have a mass spectral library match
Q	This flag applies to analyte data that are severely estimated due to quality control and/or *Q*uantitation problems, but are confirmed to be qualitatively present in the sample No value is reported with this qualification flag
R	This flag applies to analyte data that are *R*ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems No other qualification flags are reported for this analyte No value is reported with this qualification flag
U	This flag in used when the analyte was analyzed but *U*ndetected in the sample The CRL RL for the analyte accompanies this flag As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume

4/11/00

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: MINERAL/NUTRIENTS

DIVISION/BRANCH: SUPERFUND **SAMPLING DATE:** 11/28-29/00 **LAB ARRIVAL DATE:** 12/1/00 **DUE DATE:** 01/02/01
DU NUMBER: 50102D **DATASET NUMBER:** 20010011 **STUDY:** Rockford Sand & Gravel **PRIORITY:** Routine **LABORATORY :** ESAT

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER CYANIDE (μg/L)	FLAGS
1	2001IE04S01	G201, MEE03G	8	U
2	2001IE04D01	G202, MEE03H	8	U
3	2001IE04S02	G203, MEE03Q	8	U
4	2001IE04S03	G204, MEE03R	8	U
5	2001IE04S04	G205, MEE03Z	8	U
6	2001IE04S05	G206, MEE03W	8	U
7	2001IE04S06	G207, MEE03X	8	U
8	2001IE04R01	G208, MEE03Y	8	U
DATE OF ANALYSIS			12/8/00	
ANALYST		12-8-00	S. Connet	

Reviewed by: _____ Date: 12/13/2000