Site Team Evaluation Prioritization

US EPA RECORDS CENTER REGION 5
486271

L1630505006-St. Clair Co.
Swift Ag Chemical-Fairmont City Plant
ILD 059995423
SF\HRS
Volume 2 of 2

CERCLA

Analytical Results

Illinois Environmental Protection Agency

2200 Churchill Road
P. O. Box 19276
Springfield, IL 62794-9276

Printed on Recycled Paper

SITE NAME: SWIFT AG CHEMICAL

ID 059995423

TABLE 2.0
SURFACE SOIL AND GROUNDWATER SAMPLE SUMMARY

SAMPLING POINT	X101	X102	X103	X104	G101	G102	G103	G104	G105	FIELD BLANK	TRIP BLANK
PARAMETER											
VOLATILES (PPB or ug\l)											
Ethylbenzene	–	–	–	–	–	–	–	–	3.0 J	–	–
Xylene(total)	–	–	–	–	3.0 J	–	–	–	–	–	–
SEMIVOLATILES (PPB or ug\l)											
Phenol	–	–	42.0 J	–	0.5 J	–	0.6 J	–	–	0.6 J	
4-Methylphenol	–	94.0 J	–	65.0 J	–	–	–	–	–	–	
2-Nitrophenol	–	–	–	–	–	–	–	0.5 J	–	–	
2,4-Dichlorophenol	100.0 J	94.0 J	42.0 J	58.0 J	–	–	1.0 J	–	–	–	
1,2,4-Trichlorobenzene	–	–	54.0 J	–	–	–	–	–	–	–	
Naphthalene	48.0 J	120.0 J	110.0 J	70.0 J	5.0 J	3.0 J	–	–	–	–	
4-Chloro-3-Methylphenol	–	60.0 J	–	40.0 J	–	–	–	–	–	–	
2-Methylnaphthalene	54.0 J	130.0 J	98.0 J	77.0 J	12.0	6.0 J	–	–	–	–	
2,4,6-Trichlorophenol	55.0 J	–	–	–	–	–	–	–	–	–	
2-Chloronaphthalene	–	–	–	–	1.0 J	0.7 J	–	–	–	–	
Acenaphthylene	–	160.0 J	450.0 J	100.0 J	–	–	–	–	–	–	
Acenaphthene	–	–	40.0 J	–	18.0	13.0	–	–	–	–	
4-Nitrophenol	–	–	–	–	–	–	–	2.0 J	–	–	
Dibenzofuran	41.0 J	68.0 J	–	41.0 J	10.0	9.0 J	–	–	–	–	
Diethylphthalate	34.0 J	40.0 J	36.0 J	–	1.0 J	–	–	–	2.0 J	–	
Fluorene	–	69.0 J	47.0 J	46.0 J	14.0	11.0	–	–	–	–	
N-Nitrosodiphenylamine	–	64.0 J	–	–	16.0	–	–	–	–	–	
Hexachlorobenzene	–	660.0 J	160.0 J	380.0 J	–	–	–	–	–	–	
Pentachlorophenol	5100.0	36.0 J	–	–	–	–	–	–	–	–	
Phenanthrene	410.0 J	1500.0	570.0 J	870.0	45.0	32.0	–	–	–	–	
Anthracene	74.0 J	390.0 J	720.0	250.0 J	5.0 J	3.0 J	–	–	–	–	
Carbazole	48.0 J	270.0 J	130.0 J	180.0 J	20.0	17.0	–	–	–	–	
Di-n-Butylphthalate	2000.0	–	–	39.0 J	–	0.6 J	–	–	–	–	
Fluoranthene	490.0 J	3900.0	1100.0	2600.0	0.9 J	0.5 J	–	–	–	–	
Pyrene	520.0 J	3700.0	1500.0	2300.0	2.0 J	1.0 J	–	–	–	–	
Butylbenzylphthalate	–	220.0 J	88.0 J	180.0 J	–	–	–	–	–	–	
Benzo(a)anthracene	220.0 J	2100.0	1400.0	1300.0	–	–	–	–	–	–	
Chrysene	440.0 J	3400.0	2200.0	2200.0	–	–	–	–	–	–	
bis(2-Ethylhexyl)phthalate	1600.0	2300.0	2100.0	1700.0	–	–	–	–	–	–	
Benzo(b)fluoranthene	310.0 J	4600.0	2300.0	3000.0	–	–	–	–	–	–	
Benzo(k)fluoranthene	510.0 J	3500.0	1500.0	2000.0	–	–	–	–	–	–	
Benzo(a)pyrene	180.0 J	3100.0	1600.0	1900.0	–	–	–	–	–	–	
Indeno(1,2,3-cd)pyrene	75.0 J	3100.0	1100.0	1800.0	–	–	–	–	–	–	
Dibenz(a,h)anthracene	150.0 J	–	580.0 J	–	–	–	–	–	–	–	
Benzo(g,h,i)perylene	380.0 J	3500.0	1200.0	1900.0	–	–	–	–	–	–	
PESTICIDES (PPB or ug\l)											
alpha-BHC	1.1 JP	5.4 JP	4.0 J	1200.0 C	–	–	.006 JP	.079 P	–	–	
beta-BHC	2.6 JP	9.8 JP	8.0 JP	320.0	–	.009 JP	–	.04 JP	–	–	
delta-BHC	12.0 JP	44.0 P	19.0 JP	90.0 P	.005 JP	–	–	–	–	–	
gamma-BHC (Lindane)	–	–	–	190.0	.038 JP	–	–	.008 J	.004 J	–	
Heptachlor	170.0	59.0	37.0	11.0 JP	–	–	–	.005 JP	.015 J	–	
Aldrin	3900.0 PEC	310.0 P	140.0 P	5.9 JP	–	–	–	–	–	–	
Heptachlor epoxide	30.0 P	21.0 JP	16.0 JP	39.0 P	.009 JP	–	–	–	–	–	
Dieldrin	–	330.0 UX	320.0	–	–	–	–	–	–	–	
4,4'-DDE	6.2 JP	13.0 JP	8.4 JP	5.1 JP	–	–	–	–	–	–	
Endrin	–	–	–	4.7 JP	–	.004 J	–	–	–	–	
4,4'-DDD	5.9 JP	12.0 JP	6.8 J	–	–	–	–	–	–	–	
Endosulfan sulfate	8.4 JP	–	–	–	–	–	–	–	–	–	
4,4'-DDT	120.0	7.4 JP	–	–	–	–	–	–	–	–	
Methoxychlor (Mariate)	21.0 JP	16.0 JP	7.1 JP	5.9 JP	–	–	–	–	–	–	
Endrin Ketone	–	35.0 JP	18.0 JP	22.0 J	–	–	–	–	–	–	
alpha-Chlorodane	46.0 P	56.0 P	61.0 P	2.8 JP	–	–	–	–	–	–	
gamma-Chlorodane	310.0 PE	330.0 UX	340.0	12.0 JP	.009 J	.015 JP	–	–	–	–	
INORGANICS	(PPM)	(PPM)	(PPM)	(PPM)	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)	
Aluminum	21300.0	12800.0	12200.0	10900.0	37.6 B	47.8 B	3340.0	17600.0	12200.0	15.4 B	
Antimony	6.5 B	14.9 B	14.5 B	47.5	16.1 B	–	–	–	–	–	
Arsenic	30.9	17.9	18.7	25.3	27.8	46.0	14.8	30.9	–	–	
Barium	447.0	177.0	172.0	248.0	531.0	478.0	27.7 B	24.3 B	40.1 B	–	
Beryllium	0.7 B	1.4 B	1.3 B	1.0 B	–	–	1.8 B	1.7 B	0.6 B	–	
Cadmium	19.2	35.3	33.4	37.3	–	–	3150.0	193.0	29.2	–	
Calcium	48100.0	142000.0	137000.0	37900.0	146000.0	149000.0	371000.0	197000.0	320000.0	86.0 B	
Chromium	68.1	77.7	63.1	44.8	–	–	–	7.2 B	–	–	
Cobalt	9.9 B	10.5 B	10.1 B	10.5 B	–	–	91.4	53.7	56.5	–	
Copper	336.0	1660.0	968.0	452.0	3.3 B	1.9 B	4.5 B	100.0	55.7	1.7 B	
Iron	59600.0	24700.0	22500.0	33300.0	18600.0	23600.0	4890.0	1580.0	3760.0	2.0 B	
Lead	1010.0	887.0	793.0	1200.0	2.3 B	1.6 B	2.8 B	1.5 B	3.8	1.6 B	
Magnesium	12600.0	9410.0	8740.0	2700.0	47900.0	49300.0	110000.0	41900.0	21500.0	–	
Manganese	806.0	1820.0	1830.0	481.0	3770.0	4180.0	11500.0	6070.0	3130.0	1.0 B	
Mercury	2.1	0.6	0.5	0.2	–	–	–	–	–	–	
Nickel	40.4	56.2	60.9	28.2	–	–	236.0	183.0	106.0	–	
Potassium	10500.0	4790.0	4420.0	2200.0	3640.0	2940.0 B	56300.0	204000.0	59900.0	–	
Selenium	1.3 B	1.4 B	1.1 B	0.7 B	–	–	1.6 B	–	–	–	
Silver	0.9 B	4.3	9.1	1.1 B	–	–	–	–	–	–	
Sodium	1050.0 B	828.0 B	856.0 B	730.0 B	11200.0	11800.0	41600.0	11900.0	40600.0	81.9 B	
Thallium	–	0.4 B	0.6 B	0.2 B	–	–	–	–	0.8 B	–	
Vanadium	68.7	66.7	64.0	52.2	2.1 B	2.8 B	5.8 B	16.2 B	–	–	
Zinc	4590.0	9320.0	9480.0	16000.0	10.2 B	9.0 B	121000.0	31500.0	731.0	17.8 B	
Cyanide	2.7	1.2	1.0	1.2	0.9 B	2.7 B	5.6	27.2	7.0	–	
PH	5.1	6.0	6.3	6.2	6.0	6.0	6.0	6.0	6.0	6.0	

* Bold numbers exceed the Benchmarks for the soil and groundwater pathways listed in the SUPERFUND CHEMICAL DATA MATRIX (SCDM).

SITE NAME: SWIFT AG CHEMICAL
ILD 059995423

TABLE 2.1
SOIL AND GROUNDWATER SAMPLES EXCEEDING TIERED APPROACH CLEANUP OBJECTIVES

SAMPLING POINT	SOIL CLEANUP OBJECTIVES	X101	X102	X103	X104	GROUNDWATER CLEANUP OBJECTIVES	G101	G102	G103	G104	G105
PARAMETER											
SEMIVOLATILES (PPB or ug\l)											
Pentachlorophenol	10	5100.0	36.0 J	--	--		--	--	--	--	--
Benzo(a)anthracene	700	--	2100.0	1400.0	1300.0		--	--	--	--	--
Chrysene	1000	--	3400.0	2200.0	2200.0		--	--	--	--	--
Benzo(b)fluoranthene	4000	--	4600.0	--	--		--	--	--	--	--
Benzo(a)pyrene	800	--	3100.0	1600.0	1900.0		--	--	--	--	--
PESTICIDES (PPB or ug\l)											
alpha-BHC	0.4	1.1 JP	5.4JP	4.0JP	1200.0 C	0.03	--	--	--	.079 P	--
gamma-BHC (Lindane)	6	--	--	--	190						
Heptachlor	60	170	--	--	--						
Aldrin	5	3900.0 PEC	310 P	140 P	5.9JP		--	--	--	--	--
Heptachlor epoxide	30	--	--	--	39 P						
Dieldrin	1	--	330 UX	320							
INORGANICS		(PPM)	(PPM)	(PPM)	(PPM)	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)
Arsenic		30.9	17.9	18.7	25.3		--	--	--	--	--
Barium		447.0	177.0	172.0	248.0		--	--	--	--	--
Beryllium		0.7 B	--	--	--		--	--	--	--	--
Cadmium		19.2	35.3	33.4	37.3	5.0	--	--	3150.0	193.0	29.2
Chromium		68.1	77.7	63.1	44.8		--	--	--	--	--
Iron		--	--	--	--	5000	18600.0	23600.0	--	--	--
Lead		1010.0	887.0	793.0	1200.0		--	--	--	--	--
Manganese		--	--	--	--	150	3770.0	4180.0	11500.0	6070.0	3130.0
Mercury		2.1	0.6	0.5	0.2		--	--	--	--	--
Nickel		40.4	56.2	60.9	28.2	100	--	--	236.0	183.0	106.0
Vanadium		--	0.4 B	0.6 B	--						
Zinc		4590.0	9320.0	9480.0	16000.0		--	--	--	--	--
PH		5.1	6.0	6.3	6.2		6.0	6.0	6.0	6.0	6.0

* Soil cleanup objectives were taken from the TIERED APPROACH CLEANUP OBJECTIVES GUIDANCE DOCUMENT.
* Cleanup objectives for soil inorganics were not listed because each sample is pH. dependent.
* Industrial\ Commercial cleanup number were listed.
* Groundwater cleanup objectives were based on Class 1 standards.

DATA QUALIFIERS

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

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

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	

(G101, G102) G103, TB

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 24729

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. NaHSO4
4. Field QC	4. H2SO4
5. Soil/Sediment	5. Ice only
6. Oil (High only)	6. Other (Specify in Column D)
7. Waste (High only)	N. Not preserved
8. Other (Specify in Column A)	

2. Region No.: V
Sampling Co.: IEPA
4. Date Shipped: 6/5/96
Carrier: Fed Ex
6. Date Received / Received by: 06 06 96 [signature]
Sampler (Name): MARK WAGNER
Airbill Number: 8668593146
Laboratory Contract Number: D5 0005.A
Unit Price: 559.50
Sampler Signature: [signature]
3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, X SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD
5. Ship To: Columbia Analytical Services, 1317 South 13th Avenue, PO Box 479, Kelso, Wa 98626
ATTN: Jeff Christian (206) 577-7222
7. Transfer to:
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBEL3	2	L	G	1 5	X				5025551-2	G101	6/4/96 1230	MEANA5	TMW			
↓	2	L	G	5		X			5025553	G101	6/4/96 1230	↓	TMW			
↓	2	L	G	5			X		5025554	G101	6/4/96 1230	↓	TMW			
EBEL4	2	L	G	1 5	X				5-025555-6	G102	6/4/96 1230	MEANA6	TMW			
↓	2	L	G	5		X			5-025557	G102	6/4/96 1230	↓	TMW			
↓	2	L	G	5			X		5-025558	G102	6/4/96 1230	↓	TMW			
EBEL5	2	L	G	1 5	X				5-025559-60	G103	6/4/96 1515	MEANA7	TMW			
↓	2	L	G	5		X			5-025561	G103	6/4/96 1515	↓	TMW			
↓	2	L	G	5			X		5-025562	G103	6/4/96 1515	↓	TMW			
EBEL9	2	L	G	1 5	X				5-025563-4	Trip Blank	6/4/96 1600	N/A	TMW			

Shipment for Case Complete? (Y/N) Y
Page ___ of ___
Sample(s) to be Used for Laboratory QC: EBEL8
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 45244 / 45246; 45245 / 45247

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	6/5/96 1300	14			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? (Y)/N/none	
		[signature]	06 06 96 0900	Intact	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

365996

15-07-1996 000008

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 21/129

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. NaHSO4
4. Field QC	4. H2SO4
5. Soil/Sediment	5. Ice only
6. Oil (High only)	6. Other (Specify in Column D)
7. Waste (High only)	N. Not preserved
8. Other (Specify in Column A)	

2. Region No.: V
Sampling Co.: IEPA
4. Date Shipped: 6/5/96
Carrier: Fed-X
6. Date Received -- Received by: EBDX8 06.06.96 Kristin R. Massey
Sampler (Name): Mark Densmore
Airbill Number: 8665593146
Laboratory Contract Number: DS-0005, A
Unit Price: 559.50
Sampler Signature: Mark Densmore
5. Ship To: Columbia Analytical Service, 1317 South 13th Avenue, P.O. Box 479, Kelso, Wa 98626 (306)
ATTN: Jeff Christian 577-7222
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBDX8	5	L	G	5	X				5025784-5	X101	6/5/96 1045	MEANE7	MD			
" "	5	L	G	5		X	X		5025786	X101	6/5/96 1045	" "	MD			
EBDX9	5	L	G	5	X				5025787-8	X102	6/4/96 0945	MEANE8	MD			
" "	5	L	G	5		X	X		5025788	X102	6/4/96 0945	" "	MD			
EBDX0	5	L	G	5	X				5025790-1	X103	6/4/96 0945	MEANE9	MD			
" "	5	L	G	5		X	X		5025792	X103	6/4/96 0945	" "	MD			
EBEY6	5	L	G	5	X				5025793, 5025628	X104	6/5/96 1115	MEANE0	MD			
" "	5	L	G	5		X	X		5025546	X104	6/5/96 1115	" "	MD			

Shipment for Case Complete? (Y/N): Y
Page ___ of ___
Sample(s) to be Used for Laboratory QC: EBDX8 (X101)
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48332 / 41816

* Last sample in SDG 06.06.96

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark Densmore	6-5 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Kristin R. Massey	06.06.96 0900	Intact	

DISTRIBUTION: ...e - Region Copy; ...te - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS; ...PA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRU...
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-18 REV.

365986

G105-FB

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 24777

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 10
Sampling Co.: IEPA
4. Date Shipped: 6/5/96
Carrier: Fed Ex
6. Date Received -- Received by: 6/6/96 Audie R Moody
Sampler (Name): Mark Wagner
Airbill Number: 8665593146
Laboratory Contract Number: 05-0005-A
Unit Price: 559.00
Sampler Signature: Mark W
5. Ship To: Columbia Analytical Services, 1317 South 13th Avenue, PO Box 479, Kelso, Wa 98626, ATTN: Jeff Christian (360) 577-7222
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Soils	Water-Miscible Liq.	Water-Immis. Liq.
EBEL6	2	L	G	18	X				5025534-5	G105	MGAWA9	6/5/96 0900	MW			
↓	2	L	G	5		X			5025536	G105	↓	6/5/96 0900	MW			
↓	2	L	G	5			X		5025537	G105	↓	6/5/96 0900	MW			
EBEL7	4	L	G	18	X				5025547-8	FB	MGAWA8	6/4/96 1300	MW			
↓	4	L	G	5		X			5025549	FB	↓	6/4/96 1300	MW			
↓	4	L	G	5			X		5025550	FB	↓	6/4/96 1300	MW			

Shipment for Case Complete? (Y/N): Y
Page ___ of ___
Sample(s) to be Used for Laboratory QC: EBEL8
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 41542 / 41543

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark W	6/5/96 1300				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? (Y/N/none)	
		Audie R Moody	6/6/96 0900	Intact	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

365998

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

91-739

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. NaHSO4
4. Field QC	4. H2SO4
5. Soil/Sediment	5. Ice only
6. Oil (High only)	6. Other (Specify in Column D)
7. Waste (High only)	N. Not preserved
8. Other (Specify in Column A)	

2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received / Received by:
V	IEPA	6/5/96	Fed - X	EBDYB 06/06/96 Kristie R. Massey

Sampler (Name)	Airbill Number	Laboratory Contract Number	Unit Price
MARK WALKER	566 8593146	D5-0005, A	559.50

Sampler Signature	5. Ship To	7. Transfer to:	Date Received
Mark W	Columbia Analytical Services 1317 S. 13th Avenue PO Box 479 Kelso, Wa 98626 ATTN: Jeff Christian (306) 577-7222		

3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD

Received by

Contract Number | Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBEL8	2	L	G	1	X				5-025565-6	G104	6/5/96 0700	AKANA9	MW			
	2	L	G	5		X			5-025567	G104	6/5/96 0700		MW			
	2	L	G	5			X		5-025568	G104	6/5/96 0700		MW			
	2	L	G	1	X				5-025569-70	G104	6/5/96 0700		MW			
	2	L	G	5		X			5-025571	G104	6/5/96 0700		MW			
	2	L	G	5			X		5-025573	G104	6/5/96 0700		MW			
	2	L	G	1	X				5-025574-5	G104	6/5/96 0700		MW			
	2	L	G	5		X			5-025501	G104	6/5/96 0700		MW			
	2	L	G	5			X		5-025617	G104	6/5/96 0700		MW			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
Y	___ of ___	EBEL8 (G104)		45242 / 45243

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark Walker	6/5/96 1300				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Kristie R Massey	06/06/96 0900	Intact	

DISTRIBUTION: Blue - Region Copy, White - Lab Copy for Return to Region; Pink - CLASS Copy, Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

365997

45-07-1996 000010

SDG NARRATIVE

.b Name: Clayton Environmental Consultants, Inc. (CLAYTN)

Contract No.: 68-D5-0005

Case No.: 24739

SDG No.: EBDY0

Clayton Project No.: 38801

	EPA Sample Numbers	Matrix	Analysis
1	EBEL3	water	Full Organics
2	EBEL4	water	Full Organics
3	EBEL5	water	Full Organics
4	EBEL6	water	Full Organics
5	EBEL7	water	Full Organics
6	EBEL8*	water	Full Organics
7	EBDX8**	soil	Full Organics
8	EBDX9	soil	Full Organics
9	EBDY0	soil	Full Organics
10	EBEY6	soil	Full Organics
11	EBEL9	water	VOA only

.MS/MSD Sample for water matrix.
**MS/MSD Sample for soil matrix.

This data is being submitted five days late. This is due to instrumentation problems during analysis of the samples. Mistie Llewellyn, CLASS Region V Coordinator, was notified on 07/10/96. Phone log (pp. 2207) is included.

Quality Control

PCB/Pesticides

Surrogate recoveries of both water and soil samples were affected by dilutions, and surrogate peaks were obscured by sample peaks.

Sample Information/Problems

Sample EBEL8 was designated as the MS/MSD sample for the water matrix.

Sample EBDX8 was designated as the MS/MSD sample for the soil matrix.

This case was assigned SDG number EBDY0, which is not the lowest EPA sample number received. Christine Bennett was contacted on 06/12/96. The situation was explained to her. She determined that because all samples ·d arrived on the same date that their data system would not detect the discrepancy. Laboratory was instructed proceed with analysis, leaving the SDG number as originally assigned EBDY0. Communication logs are incluced (pp. 2205-2206).

Lab Name: Clayton Environmental Consultants, Inc. (CLAYTN) Contract No.: 68-D5-0005

Case No.: 24739 SDG No.: EBDY0 Clayton Project No.: 38801

Shipment Information/Problems

All samples arrived on 06/06/96 under airbill number 8668593150.

Analytical Problems

Pest/PCB

Channel A is the designation on the pesticides data from instrument 407, which uses the DB-5MS column. Channel B is the designation on the pesticides data from instrument 408, which uses the DB-608 column.

Florisil data was analyzed with case 23145, SDG EYW63.

Sample EBDX8 showed aldrin at a high concentration, and is confirmed by GC/MS. In samples EBDX8MS and EBDX8MSD, aldrin fell slightly outside the retention time window on the DB-5MS column, but fell inside the retention time window on the DB-608 column, therefore it is not reported. The 1:5 dilution of sample EBDX8 showed a dieldrin peak, but very slightly outside of the R.T. window on the DB-608 column. Dieldrin is present within the R.T. window for EBDX8MS and EBDX8MSD on both columns and is confirmed by GCMS.

EBDX8 EBDX8MS EBDX8MSD

X flag means that the detected analyte of single component pesticide can not be confirmed by GC/MS.

GC/MS confirmation was conducted on sample EBDX9 to confirm the presense of dieldrin and gamma-chlordane. EBDX9 showed dieldrin at a concentration of 520 µg/kg and gamma-chlordane at a concentration of 550 µg/kg on both GC/ECD columns (DB-5MS and DB-608). This GC/MS confirmation was performed by analyzing the semivolatile fraction and conducting a library search, comparing CAS Registry numbers for the pesticides with the library search routine, and also analyzing the extract prepared for the GC/EC analysis after a concentration step. Both analyses did not confirm the presense of dieldrin and gamma-chlordane. As a result, dieldrin and gamma-chlordane are reported as undetectd (U) and defined with an **X** qualifier on Form 1 PEST, as required by the SOW , page D-64/D-65 PEST, paragraph 11.1.2.10. The GC/MS data package is included with the case data package.

EBDX9

VOA

The initial calibration analyzed on 06/10/96 exceeded the technical acceptance criteria for the number of compounds that may be outside the allowable maximum %RSD. This oversight was not detected until after the holding times had expired. The samples analyzed with this initial calibration include EBEL8, EBEL3, and EBEL4.

EBEL8 EBEL3 EBEL4

Lab Name: Clayton Environmental Consultants, Inc. (CLAYTN) Contract No.: 68-D5-0005

Case No.: 24739 SDG No.: EBDY0 Clayton Project No.: 38801

GC Columns

Instrument ID	Column Serial #	Brand Name	Internal Diameter (mm)	Length (Meters)	Coating Material	Film Thickness (µm)
VOA						
1-A	5652982	J & W Scientific	0.53	75	DB-624	3
BNA						
5E	90230	Restek XT1-5	0.25	30	5% Ph-Me-silicone	1
Pesticides						
407	5745416J	J & W Scientific	0.53	30	DB-5MS	1.5
408	5738914	J & W Scientific	0.53	30	DB-608	0.83

VOA Traps

Trap Name	Packing Material/Brand Name	Composition	Amount/Length (cm)
Supelco Purge & Trap K Vocarb 3000	Supelco	Carbopak B	10 cm
		Carboxen 1000	6 cm
		Carboxen 1001	1 cm

Tentatively Identified Alkanes

EPA Sample No.	Alkane Name or Series	CAS #	Estimated Concentration
SBLKW1	alkane hydrocarbons	N/A	0 µg/L
EBEL3	alkane hydrocarbons	N/A	390 µg/L
EBEL4	alkane hydrocarbons	N/A	530 µg/L
EBEL5	alkane hydrocarbons	N/A	0 µg/L
EBEL6	alkane hydrocarbons	N/A	0 µg/L
EBEL7	alkane hydrocarbons	N/A	0 µg/L
EBEL8	alkane hydrocarbons	N/A	0 µg/L
SBLKS1	alkane hydrocarbons	N/A	0 µg/kg
EBDX8	alkane hydrocarbons	N/A	27,000 µg/kg
EBDX8DL	alkane hydrocarbons	N/A	26,000 µg/kg
EBDX9	alkane hydrocarbons	N/A	17,000 µg/kg
EBDX9DL	alkane hydrocarbons	N/A	4,000 µg/kg
EBDY0	alkane hydrocarbons	N/A	6,100 µg/kg
EBEY6	alkane hydrocarbons	N/A	4,200 µg/kg

Lab Name: Clayton Environmental Consultants, Inc. (CLAYTN) Contract No.: 68-D5-0005

Case No.: 24739 SDG No.: EBDY0 Clayton Project No.: 38801

Technical/Administrative Problems and Corrective Actions

1. Explanation for manual edits - document all manual edits

For the BNA and VOA analysis, the Hewlett-Packard software flags all manual edits or any compounds affected by the manual edit of an internal standard with an "m" on the reports. The peak is displayed with the baseline of the manual edits and is documented along with the associated "m" flag on the quant report and spectra report. These edits were necessary due to poor computer integration.

For the pesticide/PCB analysis, all manual edits are documented in the Timed Event Table and are flagged with a capital "M." The time with a "M" indicates the start time and a -M indicates the stop time of the integration. The baseline is then drawn and displayed on the corresponding chromatogram. These manual integrations were necessary due to poor computer integration.

Include reason for each reanalysis, whether it is billable and why

Samples Requiring Reanalysis

Pest/PCB

Samples EBDX8 (EBDX8DL), EBDX9 (EBDX9DL), EBDY0 (EBDY0DL), and EBEY6 (EBEY6DL) required running the samples at dilutions to bring the concentration of some of the analytes into the calibration range. Both sets of data are being submitted, and are billable.

EBDX8DL EBDX9DL EBDY0DL EBEY6DL

BNA

Dilutions to samples EBDX8 (EBDX8DL) and EBDX9 (EBDX9DL) were required to bring concentrations of some of the target analytes into the calibration range. Both sets of data are being submitted and are billable.

EBDX8DL EBDX9DL

Sample EBEL8 was re-extracted due to low surrogate recoveries. This sample was also used for the MS/MSD analysis; however, the surrogate compound recoveries met the surrogate acceptance criteria in both the matrix spike and matrix spike duplicate analysis. Both EBEL8 and EBEL8RE are being reported, and are billable.

EBEL8 EBEL8RE

VOA

Samples EBDY0 and EBDX9 were reanalyzed due to low internal standard areas. The reanalysis showed similar results, indicating possible matrix effect. Both sets of data for samples EBDY0, EBDY0RE, EBDX9, and EBDX9RE are being submitted, and are billable.

EBDY0RE EBDX9RE

pH of Volatile Samples

See attached list.

Lab Name: Clayton Environmental Consultants, Inc. (CLAYTN) Contract No.: 68-D5-0005

Case No.: 24739 SDG No.: EBDY0 Clayton Project No.: 38801

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Kelly A. Kolb

Date 07.17.96

Kelly A. Kolb
Project Manager

CASE 24739
SDG# EBDY0

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

CLP COMMUNICATION LOG

Name: Allen Schinsky

Message: ☑ Phone ☐ FAX ☐ Recv'd/☑ Sent Via ☐ V-Mail ☐ Memo ☐ Other

Date/Time of Contact 6/12/96 3:30pm Initiated by: ☑ Lab ☐ Region ☐ Class ☐ Other ____

Contact Name/Organization/Phone #: Carol Shaffer / CLASS / 703 579-1461

Case No. 24739 SDG No. EBDY0 Region 5

Affected Samples: All

Discussion/Issue:

① For this case we assigned SDG EBDY0 which is not the lowest EPA sample number received. what should we do?

Resolution:

① Carol said to contact Christine Bennette who she transfered me to. I explained to Christine the situation and that we had already logged the project into our system this way and started on the samples. Christine said that since all samples came in on one day in one batch that it should be ok to leave the case as is with this number (SDG EBDY0) assigned to it. This will be noted in the narrative.

Resolution Completed ☑ Yes Date/Time 3:38 pm 6/12/96

☐ No Referred to ____ Date/Time ____

☐ N/A (not applicable)

17-07-1996 002205

2/95

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EBEL3	108	94	104		0
02	EBEL4	104	94	94		0
03	EBEL5	96	104	94		0
04	EBEL6	98	104	90		0
05	EBEL7	98	104	96		0
06	EBEL8	104	92	94		0
07	EBEL8MS	98	100	100		0
08	EBEL8MSD	98	100	104		0
09	EBEL9	100	108	90		0
10	VBLKAC	102	90	96		0
11	VBLKAD	98	104	98		0
12	VHBLK	96	106	96		0
13						
14						
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27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EBDX8	109	85	107		0
02	EBDX8MS	109	87	118		0
03	EBDX8MSD	116	89	124*		1
04	EBDX9	115	86	115		0
05	EBDX9RE	130	86	130*		1
06	EBDY0	114	88	114		0
07	EBDY0RE	125	84	125*		1
08	EBEY6	106	101	121		0
09	VBLKAA	98	100	104		0
10						
11						
12						
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30						

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

I Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix Spike - EPA Sample No.: EBEL8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.	0.	32.	64	61-145
Trichloroethene	50.	0.	40.	80	71-120
Benzene	50.	0.	41.	82	76-127
Toluene	50.	0.	42.	84	76-125
Chlorobenzene	50.	0.	43.	86	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
-Dichloroethene	50.	29.	58*	10	14	61-145
Trichloroethene	50.	36.	72	10	14	71-120
Benzene	50.	36.	72*	13*	11	76-127
Toluene	50.	39.	78	7	13	76-125
Chlorobenzene	50.	39.	78	10	13	75-130

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix Spike - EPA Sample No.: EBDX8 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	81.	0.	58.	72	59-172
Trichloroethene	81.	0.	67.	83	62-137
Benzene	81.	0.	76.	94	66-142
Toluene	81.	0.	84.	104	59-139
Chlorobenzene	81.	0.	79.	97	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	81.	58.	72	0	22	59-1[illegible]
Trichloroethene	81.	62.	76	9	24	62-13[illegible]
Benzene	81.	74.	91	3	21	66-142
Toluene	81.	85.	105	1	21	59-139
Chlorobenzene	81.	76.	94	3	21	60-133

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

* Values outside of QC limits

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

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKAA

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Lab File ID:A4990 Lab Sample ID:38801-7b1

Date Analyzed: 6/10/96 Time Analyzed:1036

GC Column:DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID:HP-1A

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBDX8	38801-010a	A4991	1129
02	EBDX8MS	38801-010MS	A4995	1355
03	EBDX8MSD	38801-010MSD	A4996	1448
04	EBDX9	38801-011a	A4992	1205
05	EBDX9RE	38801-011RE	A4997	1524
06	EBDY0	38801-012a	A4993	1240
07	EBDY0RE	38801-012RE	A4998	1600
08	EBEY6	38801-013a	A4994	1316
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKAC

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Lab File ID:A5008 Lab Sample ID:38801-007b2

Date Analyzed: 6/11/96 Time Analyzed:0124

GC Column:DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:HP-1A

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBEL3	38801-001a	A5011	0310
02	EBEL4	38801-002a	A5012	0404
03	EBEL8	38801-006a	A5010	0233
04				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKAD

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Lab File ID:A5022 Lab Sample ID:38801-007b3

Date Analyzed: 6/11/96 Time Analyzed:1106

GC Column:DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:HP-1A

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBEL5	38801-003a	A5023	1149
02	EBEL6	38801-004a	A5024	1223
03	EBEL7	38801-005a	A5025	1258
04	EBEL8MS	38801-006MS	A5029	1516
05	EBEL8MSD	38801-006MSD	A5028	1441
06	EBEL9	38801-17a	A5026	1333
07	VHBLK	38801-007a	A5030	1558
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKAA

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-7b1

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4990

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

% Moisture: not dec. 0 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	3.	J
67-64-1	Acetone	13.	
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	1.	J
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKAA

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-7b1

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4990

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

% Moisture: not dec. 0 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	Cyclotetrasiloxane, octameth	17.52	90.	JN
2.	3789-85-3	Benzoic acid,2-[(trimethylsi	21.14	44.	JN
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKAC

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-007b2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5008

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

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	J
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKAC

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-007b2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5008

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

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

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

EPA SAMPLE NO.

VBLKAD

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-007b3

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5022

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

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKAD

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-007b3

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5022

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

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

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

EPA SAMPLE NO.

EBDX8

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-010a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4991

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 38 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16.	U
74-83-9	Bromomethane	16.	U
75-01-4	Vinyl Chloride	16.	U
75-00-3	Chloroethane	16.	U
75-09-2	Methylene Chloride	16 ~~4.~~	JB u
67-64-1	Acetone	26.	B u
75-15-0	Carbon Disulfide	16.	U
75-35-4	1,1-Dichloroethene	16.	U
75-34-3	1,1-Dichloroethane	16.	U
540-59-0	1,2-Dichloroethene (total)	16.	U
67-66-3	Chloroform	16.	U
107-06-2	1,2-Dichloroethane	16.	U
78-93-3	2-Butanone	16.	U
71-55-6	1,1,1-Trichloroethane	16.	U
56-23-5	Carbon Tetrachloride	16.	U
75-27-4	Bromodichloromethane	16.	U
78-87-5	1,2-Dichloropropane	16.	U
10061-01-5	cis-1,3-Dichloropropene	16.	U
79-01-6	Trichloroethene	16.	U
124-48-1	Dibromochloromethane	16.	U
79-00-5	1,1,2-Trichloroethane	16.	U
71-43-2	Benzene	16.	U
10061-02-6	trans-1,3-Dichloropropene	16.	U
75-25-2	Bromoform	16.	U
108-10-1	4-Methyl-2-Pentanone	16.	U
591-78-6	2-Hexanone	16.	U
127-18-4	Tetrachloroethene	16.	U
79-34-5	1,1,2,2-Tetrachloroethane	16.	U
108-88-3	Toluene	16.	U
108-90-7	Chlorobenzene	16.	U
100-41-4	Ethylbenzene	16.	U
100-42-5	Styrene	16.	U
1330-20-7	Xylene (total)	16.	U

ACH 8-5-96

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDX8

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-010a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4991

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 38 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76-13-1	Ethane, 1,1,2-trichloro-1,2,	3.05	9.	JN
2.	556-67-2	Cyclotetrasiloxane, octameth	17.50	59.	JNB M
3.	3789-85-3	Benzoic acid,2-[(trimethylsi	21.15	78.	JNB M
4.					
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ACH 8-9-91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX9

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-011a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4992

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 64 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	28.	U
74-83-9	Bromomethane	28.	U
75-01-4	Vinyl Chloride	28.	U
75-00-3	Chloroethane	28.	U
75-09-2	Methylene Chloride	28 ~~6~~.	JB u
67-64-1	Acetone	28 ~~18~~.	JB u
75-15-0	Carbon Disulfide	28.	U
75-35-4	1,1-Dichloroethene	28.	U
75-34-3	1,1-Dichloroethane	28.	U
540-59-0	1,2-Dichloroethene (total)	28.	U
67-66-3	Chloroform	28.	U
107-06-2	1,2-Dichloroethane	28.	U
78-93-3	2-Butanone	28.	U
71-55-6	1,1,1-Trichloroethane	28.	U
56-23-5	Carbon Tetrachloride	28.	U
75-27-4	Bromodichloromethane	28.	U
78-87-5	1,2-Dichloropropane	28.	U
10061-01-5	cis-1,3-Dichloropropene	28.	U
79-01-6	Trichloroethene	28.	U
124-48-1	Dibromochloromethane	28.	U
79-00-5	1,1,2-Trichloroethane	28.	U
71-43-2	Benzene	28.	U
10061-02-6	trans-1,3-Dichloropropene	28.	U
75-25-2	Bromoform	28.	U
108-10-1	4-Methyl-2-Pentanone	28.	U
591-78-6	2-Hexanone	28.	U
127-18-4	Tetrachloroethene	28.	U
79-34-5	1,1,2,2-Tetrachloroethane	28.	U
108-88-3	Toluene	28.	U
108-90-7	Chlorobenzene	28.	U
100-41-4	Ethylbenzene	28.	U
100-42-5	Styrene	28.	U
1330-20-7	Xylene (total)	28.	U

ACH 8-5-96

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDX9

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-011a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4992

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 64 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-58-5	Ethane, 1,1,1-trichloro-2,2,	3.06	18.	JN
2.	556-67-2	Cyclotetrasiloxane, octameth	17.47	270.	JNB u
3.	3789-85-3	Benzoic acid,2-[(trimethylsi	21.11	180.	JNB u
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ack 8-5-9

41 LM 07/15/96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX9RE

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-011RE

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4997

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 64 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	28.	U
74-83-9	Bromomethane	28.	U
75-01-4	Vinyl Chloride	28.	U
75-00-3	Chloroethane	28.	U
75-09-2	Methylene Chloride	28 ~~6~~.	JB μ
67-64-1	Acetone	28 ~~13~~.	JB μ
75-15-0	Carbon Disulfide	28.	U
75-35-4	1,1-Dichloroethene	28.	U
75-34-3	1,1-Dichloroethane	28.	U
540-59-0	1,2-Dichloroethene (total)	28.	U
67-66-3	Chloroform	28.	U
107-06-2	1,2-Dichloroethane	28.	U
78-93-3	2-Butanone	28.	U
71-55-6	1,1,1-Trichloroethane	28.	U
56-23-5	Carbon Tetrachloride	28.	U
75-27-4	Bromodichloromethane	28.	U
78-87-5	1,2-Dichloropropane	28.	U
10061-01-5	cis-1,3-Dichloropropene	28.	U
79-01-6	Trichloroethene	28.	U
124-48-1	Dibromochloromethane	28.	U
79-00-5	1,1,2-Trichloroethane	28.	U
71-43-2	Benzene	28.	U
10061-02-6	trans-1,3-Dichloropropene	28.	U
75-25-2	Bromoform	28.	U
108-10-1	4-Methyl-2-Pentanone	28.	U
591-78-6	2-Hexanone	28.	U
127-18-4	Tetrachloroethene	28.	U
79-34-5	1,1,2,2-Tetrachloroethane	28.	U
108-88-3	Toluene	28.	U
108-90-7	Chlorobenzene	28.	U
100-41-4	Ethylbenzene	28.	U
100-42-5	Styrene	28.	U
1330-20-7	Xylene (total)	28.	U

ack 8-5-96

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDX9RE

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-011RE

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4997

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 64 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	Cyclotetrasiloxane, octameth	17.36	91.	JNB µ
2.		Unknown	21.01	140.	J
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aCH 8-5-9

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDY0

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-012a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4993

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 48 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19.	U
74-83-9	Bromomethane	19.	U
75-01-4	Vinyl Chloride	19.	U
75-00-3	Chloroethane	19.	U
75-09-2	Methylene Chloride	19 ~~3~~.	JB u
67-64-1	Acetone	19 ~~14~~.	JB u
75-15-0	Carbon Disulfide	19.	U
75-35-4	1,1-Dichloroethene	19.	U
75-34-3	1,1-Dichloroethane	19.	U
540-59-0	1,2-Dichloroethene (total)	19.	U
67-66-3	Chloroform	19.	U
107-06-2	1,2-Dichloroethane	19.	U
78-93-3	2-Butanone	19.	U
71-55-6	1,1,1-Trichloroethane	19.	U
56-23-5	Carbon Tetrachloride	19.	U
75-27-4	Bromodichloromethane	19.	U
78-87-5	1,2-Dichloropropane	19.	U
10061-01-5	cis-1,3-Dichloropropene	19.	U
79-01-6	Trichloroethene	19.	U
124-48-1	Dibromochloromethane	19.	U
79-00-5	1,1,2-Trichloroethane	19.	U
71-43-2	Benzene	19.	U
10061-02-6	trans-1,3-Dichloropropene	19.	U
75-25-2	Bromoform	19.	U
108-10-1	4-Methyl-2-Pentanone	19.	U
591-78-6	2-Hexanone	19.	U
127-18-4	Tetrachloroethene	19.	U
79-34-5	1,1,2,2-Tetrachloroethane	19.	U
108-88-3	Toluene	19.	U
108-90-7	Chlorobenzene	19.	U
100-41-4	Ethylbenzene	19.	U
100-42-5	Styrene	19.	U
1330-20-7	Xylene (total)	19.	U

ACH 8-5-96

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDY0

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-012a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4993

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 48 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-58-5	Ethane, 1,1,1-trichloro-2,2,	3.04	11.	JN
2.	556-67-2	Cyclotetrasiloxane, octameth	17.46	180.	JNB
3.		Unknown	21.09	180.	J
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ack 8-5-9

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDY0RE

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-012RE

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4998

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 48 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19.	U
74-83-9	Bromomethane	19.	U
75-01-4	Vinyl Chloride	19.	U
75-00-3	Chloroethane	19.	U
75-09-2	Methylene Chloride	19 ~~4~~.	JB u
67-64-1	Acetone	19 ~~7~~.	JB u
75-15-0	Carbon Disulfide	19.	U
75-35-4	1,1-Dichloroethene	19.	U
75-34-3	1,1-Dichloroethane	19.	U
540-59-0	1,2-Dichloroethene (total)	19.	U
67-66-3	Chloroform	19.	U
107-06-2	1,2-Dichloroethane	19.	U
78-93-3	2-Butanone	19.	U
71-55-6	1,1,1-Trichloroethane	19.	U
56-23-5	Carbon Tetrachloride	19.	U
75-27-4	Bromodichloromethane	19.	U
78-87-5	1,2-Dichloropropane	19.	U
10061-01-5	cis-1,3-Dichloropropene	19.	U
79-01-6	Trichloroethene	19.	U
124-48-1	Dibromochloromethane	19.	U
79-00-5	1,1,2-Trichloroethane	19.	U
71-43-2	Benzene	19.	U
10061-02-6	trans-1,3-Dichloropropene	19.	U
75-25-2	Bromoform	19.	U
108-10-1	4-Methyl-2-Pentanone	19.	U
591-78-6	2-Hexanone	19.	U
127-18-4	Tetrachloroethene	19.	U
79-34-5	1,1,2,2-Tetrachloroethane	19.	U
108-88-3	Toluene	19.	U
108-90-7	Chlorobenzene	19.	U
100-41-4	Ethylbenzene	19.	U
100-42-5	Styrene	19.	U
1330-20-7	Xylene (total)	19.	U

ack 8-5-96

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDY0RE

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-012RE

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4998

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 48 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	Cyclotetrasiloxane, octameth	17.39	95.	JNB
2.		Unknown	21.03	100.	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL3

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-001a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5011

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	3.	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL3

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-001a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5011

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 12

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	93-53-8	Benzeneacetaldehyde, .alpha.	18.76	16.	JN
2.	6052-63-7	Benzeneethanol, .beta.-ethen	19.63	110.	JN
3.	1074-43-7	Benzene,1-methyl-3-propyl-	19.83	16.	JN
4.	98-06-6	Benzene, (1,1-dimethylethyl)	20.05	7.	JN
5.	934-80-5	Benzene, 4-ethyl-1,2-dimethy	20.42	16.	JN
6.		Unknown	20.61	74.	J
7.	27133-93-3	2,3-Dihydro-1-methylindene	20.78	70.	JN
8.	4912-92-9	1H-Indene,2,3-dihydro-1,1-di	21.14	9.	JN
9.	934-74-7	Benzene, 1-ethyl-3,5-dimethy	21.38	34.	JN
10.	1758-88-9	Benzene, 2-ethyl-1,4-dimethy	21.48	35.	JN
11.		Unknown	21.65	8.	J
12.	874-35-1	1H-Indene, 2,3-dihydro-5-met	21.99	36.	JN
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL4

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-002a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5012

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL4

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-002a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5012

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 14

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	14.82	5.	J
2.		Unknown	15.02	32.	J
3.	2809-64-5	Naphthalene, 1,2,3,4-tetrahy	16.10	24.	JN
4.	1685-82-1	1H-Indene, 2,3-dihydro-4,6-d	18.11	10.	JN
5.	1074-17-5	Benzene, 1-methyl-2-propyl-	18.80	18.	JN
6.		Unknown	19.66	190.	J
7.	25340-17-4	DIETHYL BENZENE (PARA?)	19.88	11.	JN
8.	135-01-3	Benzene, 1,2-diethyl-	20.09	9.	JN
9.		Unknown	20.43	29.	J
10.	99-87-6	Benzene, 1-methyl-4-(1-methy	20.65	79.	JN
11.	767-58-8	1H-Indene, 2,3-dihydro-1-met	20.82	63.	JN
12.	2809-64-5	Naphthalene, 1,2,3,4-tetrahy	21.15	56.	JN
13.	95-93-2	Benzene, 1,2,4,5-tetramethyl	21.41	24.	JN
14.		Unknown	22.02	70.	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL5

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-003a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5023

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL5

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-003a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5023

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

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

EPA SAMPLE NO.

EBEL6

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-004a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5024

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	3.	J
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL6

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-004a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5024

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

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

Number TICs Found: 0

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

EPA SAMPLE NO.

EBEL7

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-005a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5025

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL7

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-005a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5025

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

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

EPA SAMPLE NO.

EBEL8

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-006a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5010

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL8

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-006a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5010

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

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

EPA SAMPLE NO.

EBEL9

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-17a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5026

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL9

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:38801-17a

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: A5026

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. Date Analyzed: 6/11/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-07-0	Acetaldehyde	1.92	6.	JN
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEY6

Lab Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-013a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4994

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 29 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14.	U
74-83-9	Bromomethane	14.	U
75-01-4	Vinyl Chloride	14.	U
75-00-3	Chloroethane	14.	U
75-09-2	Methylene Chloride	14 ~~3~~.	JB u
67-64-1	Acetone	32.	B u
75-15-0	Carbon Disulfide	14.	U
75-35-4	1,1-Dichloroethene	14.	U
75-34-3	1,1-Dichloroethane	14.	U
540-59-0	1,2-Dichloroethene (total)	14.	U
67-66-3	Chloroform	14.	U
107-06-2	1,2-Dichloroethane	14.	U
78-93-3	2-Butanone	14.	U
71-55-6	1,1,1-Trichloroethane	14.	U
56-23-5	Carbon Tetrachloride	14.	U
75-27-4	Bromodichloromethane	14.	U
78-87-5	1,2-Dichloropropane	14.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U
79-01-6	Trichloroethene	14.	U
124-48-1	Dibromochloromethane	14.	U
79-00-5	1,1,2-Trichloroethane	14.	U
71-43-2	Benzene	14.	U
10061-02-6	trans-1,3-Dichloropropene	14.	U
75-25-2	Bromoform	14.	U
108-10-1	4-Methyl-2-Pentanone	14.	U
591-78-6	2-Hexanone	14.	U
127-18-4	Tetrachloroethene	14.	U
79-34-5	1,1,2,2-Tetrachloroethane	14.	U
108-88-3	Toluene	14.	U
108-90-7	Chlorobenzene	14.	U
100-41-4	Ethylbenzene	14.	U
100-42-5	Styrene	14.	U
1330-20-7	Xylene (total)	14.	U

ach 9-5-96

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEY6

Name:Clayton Environmental Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:38801-013a

Sample wt/vol: 5.00 (g/ml) G Lab File ID: A4994

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: not dec. 29 Date Analyzed: 6/10/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-58-5	Ethane, 1,1,1-trichloro-2,2,	3.00	7.	JN
2.	556-67-2	Cyclotetrasiloxane, octameth	17.40	13.	JNB u
3.	3789-85-3	Benzoic acid,2-[(trimethylsi	21.04	45.	JNB u
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ach 8-5-96

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EBEL3	102	58	40	71	69	103	77	52	0
02	EBEL4	88	64	72	69	72	107	75	32	0
03	EBEL5	68	46	72	71	73	105	75	36	0
04	EBEL6	62	44	88	24	40	97	53	40	0
05	EBEL7	76	56	94	37	67	107	72	52	0
06	EBEL8	66	40*	50	0*	0*	25	0*	44	4
07	EBEL8MS	68	56	48	33	43	87	59	56	0
08	EBEL8MSD	60	42*	50	27	35	83	49	40	1
09	EBEL8RE	66	68	90	1*	3*	53	13*	58	3
10	SBLKW1	64	42*	90	67	61	84	65	42	1
11	SBLKWR1	60	50	88	64	63	91	63	50	0
12										
13										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

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	EBDX8	69	81	106	69	66	104	64	59	0
02	EBDX8DL	65	75	100	66	64	112	66	56	0
03	EBDX8MS	72	78	94	66	66	118	66	62	0
04	EBDX8MSD	75	84	100	77	77	129*	69	72	1
05	EBDX9	69	77	83	77	70	105	66	61	0
06	EBDX9DL	77	80	102	81	72	114	77	66	0
07	EBDY0	76	79	83	68	68	123*	70	67	1
08	EBEY6	67	67	77	63	65	105	63	60	0
09	SBLKS1	66	66	96	64	64	96	60	66	0
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		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

FORM II SV-2 OLM03.0

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix Spike - EPA Sample No.: EBEL8 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75.	0.	23.	31	12-110
2-Chlorophenol	75.	0.	42.	56	27-123
1,4-Dichlorobenzene	50.	0.	22.	44	36- 97
N-Nitroso-di-n-prop.(1)	50.	0.	34.	68	41-116
1,2,4-Trichlorobenzene	50.	0.	20.	40	39- 98
4-Chloro-3-methylphenol	75.	0.	15.	20*	23- 97
Acenaphthene	50.	0.	26.	52	46-118
4-Nitrophenol	75.	2.	94.	123*	10- 80
2,4-Dinitrotoluene	50.	0.	44.	88	24- 96
Pentachlorophenol	75.	0.	78.	104*	9-103
Pyrene	50.	0.	22.	44	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Phenol	75.	18.	24	25	42	12-110
2-Chlorophenol	75.	35.	47	17	40	27-123
1,4-Dichlorobenzene	50.	18.	36	20	28	36- 97
N-Nitroso-di-n-prop.(1)	50.	28.	56	19	38	41-116
1,2,4-Trichlorobenzene	50.	17.	34*	16	28	39- 98
4-Chloro-3-methylphenol	75.	18.	24	18	42	23- 97
Acenaphthene	50.	19.	38*	31	31	46-118
4-Nitrophenol	75.	80.	104*	17	50	10- 80
2,4-Dinitrotoluene	50.	37.	74	17	38	24- 96
Pentachlorophenol	75.	63.	84	21	50	9-103
Pyrene	50.	17.	34	26	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 6 out of 22 outside limits

COMMENTS:

382 UN 07/16/96

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix Spike - EPA Sample No.: EBDX8 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	4800.	0.	3000.	62	26- 90
2-Chlorophenol	4800.	0.	3000.	62	25-102
1,4-Dichlorobenzene	3300.	0.	1800.	54	28-104
N-Nitroso-di-n-prop.(1)	3300.	0.	2000.	61	41-126
1,2,4-Trichlorobenzene	3300.	0.	2100.	64	38-107
4-Chloro-3-methylphenol	4800.	0.	3700.	77	26-103
Acenaphthene	3300.	0.	2400.	73	31-137
4-Nitrophenol	4800.	0.	4400.	92	11-114
2,4-Dinitrotoluene	3300.	0.	2400.	73	28- 89
Pentachlorophenol	4800.	5100.	11000.	123*	17-109
Pyrene	3300.	520.	3100.	78	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	4800.	3500.	73	16	35	26- 90
2-Chlorophenol	4800.	3100.	64	3	50	25-102
1,4-Dichlorobenzene	3300.	2000.	61	12	27	28-104
N-Nitroso-di-n-prop.(1)	3300.	2400.	73	18	38	41-126
1,2,4-Trichlorobenzene	3300.	2300.	70	9	23	38-107
4-Chloro-3-methylphenol	4800.	4100.	85	10	33	26-103
Acenaphthene	3300.	2600.	79	8	19	31-137
4-Nitrophenol	4800.	4300.	89	3	50	11-114
2,4-Dinitrotoluene	3300.	2600.	79	8	47	28- 89
Pentachlorophenol	4800.	11000.	123*	0	47	17-109
Pyrene	3300.	3400.	87	11	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 11 outside limits
Spike Recovery: 2 out of 22 outside limits

MENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKS1

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Lab File ID:E0339 Lab Sample ID:015

Instrument ID:HP-5 Date Extracted: 6/10/96

Matrix: (soil/water) SOIL Date Analyzed: 6/17/96

Level:(low/med) LOW Time Analyzed: 1144

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBDX8	010	E0340	6/17/96
02	EBDX8DL	010	E0346	6/17/96
03	EBDX8MS	010	E0341	6/17/96
04	EBDX8MSD	010	E0342	6/17/96
05	EBDX9	011	E0347	6/17/96
06	EBDX9DL	011	E0343	6/17/96
07	EBDY0	012	E0348	6/17/96
08	EBEY6	013	E0349	6/17/96
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKW1

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Lab File ID:E0324 Lab Sample ID:008a

Instrument ID:HP-5 Date Extracted: 6/07/96

Matrix: (soil/water) WATER Date Analyzed: 6/13/96

Level:(low/med) LOW Time Analyzed: 1247

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBEL3	001c	E0325	6/13/96
02	EBEL4	002c	E0326	6/13/96
03	EBEL5	003c	E0327	6/13/96
04	EBEL6	004c	E0328	6/13/96
05	EBEL7	005c	E0329	6/13/96
06	EBEL8	006e	E0330	6/13/96
07	EBEL8MS	006f	E0331	6/13/96
08	EBEL8MSD	006g	E0332	6/13/96
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKWR1

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Lab File ID:E0364 Lab Sample ID:008

Instrument ID:HP-5 Date Extracted: 6/15/96

Matrix: (soil/water) WATER Date Analyzed: 6/24/96

Level:(low/med) LOW Time Analyzed: 1348

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBEL8RE	006	E0365	6/24/96
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COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

1 Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:015

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0339

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 0 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
111-91-1	bis(2-Chloroethoxy)methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	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
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	830.	U
131-11-3	Dimethylphthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
99-09-2	3-Nitroaniline	830.	U
83-32-9	Acenaphthene	330.	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKS1

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:015

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0339

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 0 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Number TICs Found: 13

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	4.20	10000.	J
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.00	90000.	JNA
3.	286-20-4	7-Oxabicyclo[4.1.0]heptane	5.23	450.	JN
4.		Unknown	5.53	330.	J
5.	822-67-3	2-Cyclohexen-1-ol	5.70	160.	JN
6.		Unknown	6.11	4900.	J
7.	111-77-3	Ethanol, 2-(2-methoxyethoxy)	6.31	91.	JN
8.	930-68-7	2-Cyclohexen-1-one	6.37	130.	JN
9.		Unknown	6.47	96.	J
10.	5343-96-4	2-Butanol, 3-methyl-, acetat	6.96	620.	JN
11.		Unknown	7.17	350.	J
12.		Unknown	7.23	71.	J
13.		Unknown	9.31	74.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:008a

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0324

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:008a

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0324

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	29.	
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW1

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:008a

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0324

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.286-20-4	7-Oxabicyclo[4.1.0]heptane +	5.21	8.	JN
2.822-67-3	2-Cyclohexen-1-ol	5.66	4.	JN
3.111-77-3	Ethanol, 2-(2-methoxyethoxy)	6.31	3.	JN
4.930-68-7	2-Cyclohexen-1-one	6.37	4.	JN
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKWR1

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:008

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0364

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/15/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/24/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKWR1

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:008

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0364

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/15/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/24/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKWR1

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:008

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0364

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/15/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/24/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	12.58	3.	J
2.					
3.					
4.					
5.					
6.					
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30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX8

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:010

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0340

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 48 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	630.	U
111-44-4	bis(2-Chloroethyl)ether	630.	U
95-57-8	2-Chlorophenol	630.	U
541-73-1	1,3-Dichlorobenzene	630.	U
106-46-7	1,4-Dichlorobenzene	630.	U
95-50-1	1,2-Dichlorobenzene	630.	U
95-48-7	2-Methylphenol	630.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	630.	U
106-44-5	4-Methylphenol	630.	U
621-64-7	N-Nitroso-di-n-propylamine	630.	U
67-72-1	Hexachloroethane	630.	U
98-95-3	Nitrobenzene	630.	U
78-59-1	Isophorone	630.	U
88-75-5	2-Nitrophenol	630.	U
105-67-9	2,4-Dimethylphenol	630.	U
111-91-1	bis(2-Chloroethoxy)methane	630.	U
120-83-2	2,4-Dichlorophenol	100.	J
120-82-1	1,2,4-Trichlorobenzene	630.	U
91-20-3	Naphthalene	48.	J
106-47-8	4-Chloroaniline	630.	U
87-68-3	Hexachlorobutadiene	630.	U
59-50-7	4-Chloro-3-methylphenol	630.	U
91-57-6	2-Methylnaphthalene	54.	J
77-47-4	Hexachlorocyclopentadiene	630.	U
88-06-2	2,4,6-Trichlorophenol	55.	J
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	630.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethylphthalate	630.	U
208-96-8	Acenaphthylene	630.	U
606-20-2	2,6-Dinitrotoluene	630.	U
99-09-2	3-Nitroaniline	1600.	U
83-32-9	Acenaphthene	630.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX8

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:010

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0340

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 48 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	41.	J
121-14-2	2,4-Dinitrotoluene	630.	U
84-66-2	Diethylphthalate	34.	J
7005-72-3	4-Chlorophenyl-phenylether	630.	U
86-73-7	Fluorene	630.	U
100-01-6	4-Nitroaniline	1600.	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine (1)	630.	U
101-55-3	4-Bromophenyl-phenylether	630.	U
118-74-1	Hexachlorobenzene	630.	U
87-86-5	Pentachlorophenol	5100.	
85-01-8	Phenanthrene	410.	J
120-12-7	Anthracene	74.	J
86-74-8	Carbazole	48.	J
84-74-2	Di-n-butylphthalate	2000.	
206-44-0	Fluoranthene	490.	J
129-00-0	Pyrene	520.	J
85-68-7	Butylbenzylphthalate	630.	U
91-94-1	3,3'-Dichlorobenzidine	630.	U
56-55-3	Benzo(a)anthracene	220.	J
218-01-9	Chrysene	440.	J
117-81-7	bis(2-Ethylhexyl)phthalate	1600.	
117-84-0	Di-n-octylphthalate	630.	U
205-99-2	Benzo(b)fluoranthene	310.	J
207-08-9	Benzo(k)fluoranthene	510.	J
50-32-8	Benzo(a)pyrene	180.	J
193-39-5	Indeno(1,2,3-cd)pyrene	75.	J
53-70-3	Dibenz(a,h)anthracene	150.	J
191-24-2	Benzo(g,h,i)perylene	380.	J

(1) - Cannot be separated from Diphenylamine

* Qualifier out of range

alt 8-5-96

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDX8

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:010

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0340

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 48 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.1

Number TICs Found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.20	11000.	J
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	4.94	120000.	JNAB µ
3. 286-20-4	7-Oxabicyclo[4.1.0]heptane	5.23	810.	JNB µ
4.	Unknown	5.53	400.	J
5. 822-67-3	2-Cyclohexen-1-ol	5.69	410.	JNB µ
6.	Unknown	6.09	5200.	J
7. 111-77-3	Ethanol, 2-(2-methoxyethoxy)	6.31	230.	JNB µ
8. 930-68-7	2-Cyclohexen-1-one	6.37	290.	JNB µ
9.	Unknown	6.47	280.	J
10.	Unknown acid type	6.73	390.	J
11. 5343-96-4	2-Butanol, 3-methyl-, acetat	6.96	840.	JNB µ
12. 5343-96-4	2-Butanol, 3-methyl-, acetat	7.17	370.	JNB µ
13.	Unknown	17.10	240.	J
14. 1825-21-4	Benzene, pentachloromethoxy-	18.51	640.	JN
15.	Unknown	20.02	230.	J
16.	Unknown	20.19	1400.	J
17.	Unknown	20.61	360.	J
18. 309-00-2	1,4:5,8-Dimethanonaphthalene	20.80	5000.	JN
19.	Unknown acid type	21.68	390.	J
20. 60-57-1	Dieldrin	22.38	6900.	JN
21.	Unknown	23.01	650.	J
22. 14982-53-7	Cholestane + unknown	26.18	2300.	JN
23.	Unknown	27.38	580.	J
24.	Unknown	28.50	1100.	J
25.	5.ALPHA.-STIGMASTANE + unk.	29.08	1000.	J
26.	Unknown	29.59	430.	J
27.	Unknown	31.61	2700.	J
28.	Unknown	32.64	2600.	J
29.	Unknown	33.86	260.	J
30.	Unknown	35.22	1000.	J

ACH 8.5.96

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX8DL

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:010

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0346

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 48 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 5.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1300.	U
111-44-4	bis(2-Chloroethyl)ether	1300.	U
95-57-8	2-Chlorophenol	1300.	U
541-73-1	1,3-Dichlorobenzene	1300.	U
106-46-7	1,4-Dichlorobenzene	1300.	U
95-50-1	1,2-Dichlorobenzene	1300.	U
95-48-7	2-Methylphenol	1300.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1300.	U
106-44-5	4-Methylphenol	1300.	U
621-64-7	N-Nitroso-di-n-propylamine	1300.	U
67-72-1	Hexachloroethane	1300.	U
98-95-3	Nitrobenzene	1300.	U
78-59-1	Isophorone	1300.	U
88-75-5	2-Nitrophenol	1300.	U
105-67-9	2,4-Dimethylphenol	1300.	U
111-91-1	bis(2-Chloroethoxy)methane	1300.	U
120-83-2	2,4-Dichlorophenol	120.	DJ
120-82-1	1,2,4-Trichlorobenzene	1300.	U
91-20-3	Naphthalene	1300.	U
106-47-8	4-Chloroaniline	1300.	U
87-68-3	Hexachlorobutadiene	1300.	U
59-50-7	4-Chloro-3-methylphenol	1300.	U
91-57-6	2-Methylnaphthalene	1300.	U
77-47-4	Hexachlorocyclopentadiene	1300.	U
88-06-2	2,4,6-Trichlorophenol	1300.	U
95-95-4	2,4,5-Trichlorophenol	3200.	U
91-58-7	2-Chloronaphthalene	1300.	U
88-74-4	2-Nitroaniline	3200.	U
131-11-3	Dimethylphthalate	1300.	U
208-96-8	Acenaphthylene	1300.	U
606-20-2	2,6-Dinitrotoluene	1300.	U
99-09-2	3-Nitroaniline	3200.	U
83-32-9	Acenaphthene	1300.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX8DL

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:010

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0346

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 48 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 5.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3200.	U
100-02-7	4-Nitrophenol	3200.	U
132-64-9	Dibenzofuran	1300.	U
121-14-2	2,4-Dinitrotoluene	1300.	U
84-66-2	Diethylphthalate	1300.	U
7005-72-3	4-Chlorophenyl-phenylether	1300.	U
86-73-7	Fluorene	1300.	U
100-01-6	4-Nitroaniline	3200.	U
534-52-1	4,6-Dinitro-2-methylphenol	3200.	U
86-30-6	N-Nitrosodiphenylamine (1)	1300.	U
101-55-3	4-Bromophenyl-phenylether	1300.	U
118-74-1	Hexachlorobenzene	1300.	U
87-86-5	Pentachlorophenol	4600.	D
85-01-8	Phenanthrene	440.	DJ
120-12-7	Anthracene	1300.	U
86-74-8	Carbazole	1300.	U
84-74-2	Di-n-butylphthalate	2200.	D
206-44-0	Fluoranthene	530.	DJ
129-00-0	Pyrene	530.	DJ
85-68-7	Butylbenzylphthalate	130.	DJ
91-94-1	3,3'-Dichlorobenzidine	1300.	U
56-55-3	Benzo(a)anthracene	210.	DJ
218-01-9	Chrysene	400.	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	1600.	D
117-84-0	Di-n-octylphthalate	1300.	U
205-99-2	Benzo(b)fluoranthene	430.	DJ
207-08-9	Benzo(k)fluoranthene	320.	DJ
50-32-8	Benzo(a)pyrene	190.	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	320.	DJ
53-70-3	Dibenz(a,h)anthracene	150.	DJ
191-24-2	Benzo(g,h,i)perylene	360.	DJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDX8DL

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:010

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0346

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 48 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 5.1

Number TICs Found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	4.20	12000.	DJ
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	4.90	130000.	DJNAB μ
3.	286-20-4	7-Oxabicyclo[4.1.0]heptane	5.22	790.	DJNB μ
4.		Unknown	5.53	370.	DJ
5.	822-67-3	2-Cyclohexen-1-ol	5.70	430.	DJNB μ
6.		Unknown	6.08	5200.	DJ
7.		Unknown	6.98	650.	DJ
8.	1825-21-4	Benzene, pentachloromethoxy-	18.53	450.	DJN
9.		Unknown	19.29	400.	DJ
10.		Unknown	20.02	360.	DJ
11.		Unknown	20.21	1400.	DJ
12.		Unknown	20.63	570.	DJ
13.	309-00-2	1,4:5,8-Dimethanonaphthalene	20.82	8200.	DJN
14.		Unknown	21.05	640.	DJ
15.	781-43-1	Anthracene, 9,10-dimethyl- +	21.28	370.	DJN
16.		Unknown	22.12	1800.	DJ
17.	60-57-1	Dieldrin	22.40	7500.	DJN
18.		Unknown	23.03	580.	DJ
19.		Unknown	24.38	1700.	DJ
20.	73105-67-6	1-IODO-2-METHYLUNDECANE + un	25.81	3100.	DJN
21.		Unknown	26.18	1500.	DJ
22.		Unknown	26.58	2200.	DJ
23.		Unknown	27.34	1300.	DJ
24.		Unknown	28.46	1100.	DJ
25.		Unknown	28.73	620.	DJ
26.		Unknown	29.07	1600.	DJ
27.	192-97-2	Benzo[e]pyrene + unknown	29.61	1500.	DJN
28.		Unknown	31.59	3800.	DJ
29.		(17.alpha.H,21.beta.H)-Hopan	32.64	3400.	DJ
30.		Unknown	35.19	1200.	DJ

ack 8-5-9

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX9

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:011

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0347

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	720.	U
111-44-4	bis(2-Chloroethyl)ether	720.	U
95-57-8	2-Chlorophenol	720.	U
541-73-1	1,3-Dichlorobenzene	720.	U
106-46-7	1,4-Dichlorobenzene	720.	U
95-50-1	1,2-Dichlorobenzene	720.	U
95-48-7	2-Methylphenol	720.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	720.	U
106-44-5	4-Methylphenol	94.	J
621-64-7	N-Nitroso-di-n-propylamine	720.	U
67-72-1	Hexachloroethane	720.	U
98-95-3	Nitrobenzene	720.	U
78-59-1	Isophorone	720.	U
88-75-5	2-Nitrophenol	720.	U
105-67-9	2,4-Dimethylphenol	720.	U
111-91-1	bis(2-Chloroethoxy)methane	720.	U
120-83-2	2,4-Dichlorophenol	94.	J
120-82-1	1,2,4-Trichlorobenzene	720.	U
91-20-3	Naphthalene	120.	J
106-47-8	4-Chloroaniline	720.	U
87-68-3	Hexachlorobutadiene	720.	U
59-50-7	4-Chloro-3-methylphenol	60.	J
91-57-6	2-Methylnaphthalene	130.	J
77-47-4	Hexachlorocyclopentadiene	720.	U
88-06-2	2,4,6-Trichlorophenol	720.	U
95-95-4	2,4,5-Trichlorophenol	1800.	U
91-58-7	2-Chloronaphthalene	720.	U
88-74-4	2-Nitroaniline	1800.	U
131-11-3	Dimethylphthalate	720.	U
208-96-8	Acenaphthylene	160.	J
606-20-2	2,6-Dinitrotoluene	720.	U
99-09-2	3-Nitroaniline	1800.	U
83-32-9	Acenaphthene	720.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX9

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:011

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0347

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1800.	U	
100-02-7	4-Nitrophenol	1800.	U	
132-64-9	Dibenzofuran	68.	J	
121-14-2	2,4-Dinitrotoluene	720.	U	
84-66-2	Diethylphthalate	40.	J	
7005-72-3	4-Chlorophenyl-phenylether	720.	U	
86-73-7	Fluorene	69.	J	
100-01-6	4-Nitroaniline	1800.	U	
534-52-1	4,6-Dinitro-2-methylphenol	1800.	U	
86-30-6	N-Nitrosodiphenylamine (1)	64.	J	
101-55-3	4-Bromophenyl-phenylether	720.	U	
118-74-1	Hexachlorobenzene	660.	J	*
87-86-5	Pentachlorophenol	36.	J	*
85-01-8	Phenanthrene	1500.		
120-12-7	Anthracene	390.	J	
86-74-8	Carbazole	270.	J	
84-74-2	Di-n-butylphthalate	720.	U	
206-44-0	Fluoranthene	3900.		
129-00-0	Pyrene	3700.		
85-68-7	Butylbenzylphthalate	220.	J	
91-94-1	3,3'-Dichlorobenzidine	720.	U	
56-55-3	Benzo(a)anthracene	2100.		
218-01-9	Chrysene	3400.		
117-81-7	bis(2-Ethylhexyl)phthalate	2300.		
117-84-0	Di-n-octylphthalate	720.	U	
205-99-2	Benzo(b)fluoranthene	4600.		
207-08-9	Benzo(k)fluoranthene	3500.		
50-32-8	Benzo(a)pyrene	3100.		
193-39-5	Indeno(1,2,3-cd)pyrene	3100.		
53-70-3	Dibenz(a,h)anthracene	720.	U	
191-24-2	Benzo(g,h,i)perylene	3500.		

(1) - Cannot be separated from Diphenylamine

* qualifier out of range
ACH 8-5-96

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDX9

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:011

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0347

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

Number TICs Found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	4.23	15000.	J
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.00	150000.	JNAB µ
3.	286-20-4	7-Oxabicyclo[4.1.0]heptane	5.24	950.	JNB µ
4.	75-91-2	Hydroperoxide, 1,1-dimethyle	5.55	570.	JN
5.	822-67-3	2-Cyclohexen-1-ol	5.72	570.	JNB µ
6.	930-68-7	2-Cyclohexen-1-one	6.39	500.	JNB µ
7.		Unknown	6.77	570.	J
8.	5343-96-4	2-Butanol, 3-methyl-, acetat	6.98	1100.	JNB µ
9.		Unknown	7.19	540.	J
10.	1861-40-1	Balan	17.81	610.	JN
11.		Unknown	20.23	3200.	J
12.		Unknown	20.36	810.	J
13.		Unknown	20.65	1400.	J
14.		Unknown	20.78	620.	J
15.	1861-32-1	Dacthal + Unknown	20.84	1800.	JN
16.	3674-69-9	Phenanthrene, 4,5-dimethyl-	21.07	570.	JN
17.	5737-13-3	CYCLOPENTA(DEF)PHENANTHRENON	21.47	2500.	JN
18.		Unknown	21.89	590.	J
19.	2381-21-7	Pyrene, 1-methyl- + unknown	22.65	510.	JN
20.		Unknown	25.38	520.	J
21.		Unknown	26.20	720.	J
22.		Unknown	26.62	780.	J
23.		Unknown	29.11	760.	J
24.	192-97-2	Benzo[e]pyrene	29.66	1400.	JN
25.		Unknown	31.63	2600.	J
26.		(17.alpha.H,21.beta.H)-Hopan	32.70	2000.	J
27.		Unknown	33.25	1000.	J
28.		Unknown	34.09	900.	J
29.		Unknown	34.41	1000.	J
30.	79191-19-8	Iscopalane	35.31	1100.	JN

acf 8-5-96

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX9DL

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:011

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0343

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600.	U
111-44-4	bis(2-Chloroethyl)ether	3600.	U
95-57-8	2-Chlorophenol	3600.	U
541-73-1	1,3-Dichlorobenzene	3600.	U
106-46-7	1,4-Dichlorobenzene	3600.	U
95-50-1	1,2-Dichlorobenzene	3600.	U
95-48-7	2-Methylphenol	3600.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3600.	U
106-44-5	4-Methylphenol	3600.	U
621-64-7	N-Nitroso-di-n-propylamine	3600.	U
67-72-1	Hexachloroethane	3600.	U
98-95-3	Nitrobenzene	3600.	U
78-59-1	Isophorone	3600.	U
88-75-5	2-Nitrophenol	3600.	U
105-67-9	2,4-Dimethylphenol	3600.	U
111-91-1	bis(2-Chloroethoxy)methane	3600.	U
120-83-2	2,4-Dichlorophenol	3600.	U
120-82-1	1,2,4-Trichlorobenzene	3600.	U
91-20-3	Naphthalene	3600.	U
106-47-8	4-Chloroaniline	3600.	U
87-68-3	Hexachlorobutadiene	3600.	U
59-50-7	4-Chloro-3-methylphenol	3600.	U
91-57-6	2-Methylnaphthalene	3600.	U
77-47-4	Hexachlorocyclopentadiene	3600.	U
88-06-2	2,4,6-Trichlorophenol	3600.	U
95-95-4	2,4,5-Trichlorophenol	9000.	U
91-58-7	2-Chloronaphthalene	3600.	U
88-74-4	2-Nitroaniline	9000.	U
131-11-3	Dimethylphthalate	3600.	U
208-96-8	Acenaphthylene	3600.	U
606-20-2	2,6-Dinitrotoluene	3600.	U
99-09-2	3-Nitroaniline	9000.	U
83-32-9	Acenaphthene	3600.	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDX9DL

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:011

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0343

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.0

Number TICs Found: 19

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	4.18	24000.	DJ
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	4.86	220000.	DJNAB µ
3.	286-20-4	7-Oxabicyclo[4.1.0]heptane +	5.23	940.	DJNB µ
4.		Unknown	6.08	9600.	DJ
5.		Unknown	6.98	1100.	DJ
6.		Unknown	20.23	3400.	DJ
7.		Unknown	20.65	1300.	DJ
8.	14419-01-3	Benzoic acid, 2,3,5,6-tetrac	20.82	4100.	DJN
9.		Unknown	21.45	1200.	DJ
10.		Unknown	21.87	1400.	DJ
11.	2381-21-7	Pyrene, 1-methyl-	22.61	1000.	DJN
12.	27208-37-3	Cyclopenta[cd]pyrene	24.10	740.	DJN
13.		Unknown	24.33	1200.	DJ
14.		Unknown	26.10	930.	DJ
15.		Unknown	29.02	5700.	DJ
16.	205-82-3	Benzo[j]fluoranthene	29.53	7300.	DJN
17.		Unknown	31.48	1700.	DJ
18.		Unknown	32.37	1000.	DJ
19.		Unknown	32.54	7100.	DJ
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

ach 8-5-96

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDY0

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:012

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0348

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	42.	J
111-44-4	bis(2-Chloroethyl)ether	620.	U
95-57-8	2-Chlorophenol	620.	U
541-73-1	1,3-Dichlorobenzene	620.	U
106-46-7	1,4-Dichlorobenzene	620.	U
95-50-1	1,2-Dichlorobenzene	620.	U
95-48-7	2-Methylphenol	620.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	620.	U
106-44-5	4-Methylphenol	620.	U
621-64-7	N-Nitroso-di-n-propylamine	620.	U
67-72-1	Hexachloroethane	620.	U
98-95-3	Nitrobenzene	620.	U
78-59-1	Isophorone	620.	U
88-75-5	2-Nitrophenol	620.	U
105-67-9	2,4-Dimethylphenol	620.	U
111-91-1	bis(2-Chloroethoxy)methane	620.	U
120-83-2	2,4-Dichlorophenol	42.	J
120-82-1	1,2,4-Trichlorobenzene	54.	J
91-20-3	Naphthalene	110.	J
106-47-8	4-Chloroaniline	620.	U
87-68-3	Hexachlorobutadiene	620.	U
59-50-7	4-Chloro-3-methylphenol	620.	U
91-57-6	2-Methylnaphthalene	98.	J
77-47-4	Hexachlorocyclopentadiene	620.	U
88-06-2	2,4,6-Trichlorophenol	620.	U
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	620.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethylphthalate	620.	U
208-96-8	Acenaphthylene	450.	J
606-20-2	2,6-Dinitrotoluene	620.	U
99-09-2	3-Nitroaniline	1600.	U
83-32-9	Acenaphthene	40.	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDY0

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:012

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0348

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	620.	U
121-14-2	2,4-Dinitrotoluene	620.	U
84-66-2	Diethylphthalate	36.	J
7005-72-3	4-Chlorophenyl-phenylether	620.	U
86-73-7	Fluorene	47.	J
100-01-6	4-Nitroaniline	1600.	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine (1)	620.	U
101-55-3	4-Bromophenyl-phenylether	620.	U
118-74-1	Hexachlorobenzene	160.	J
87-86-5	Pentachlorophenol	1600.	U
85-01-8	Phenanthrene	570.	J
120-12-7	Anthracene	720.	
86-74-8	Carbazole	130.	J
84-74-2	Di-n-butylphthalate	620.	U
206-44-0	Fluoranthene	1100.	
129-00-0	Pyrene	1500.	
85-68-7	Butylbenzylphthalate	88.	J
91-94-1	3,3'-Dichlorobenzidine	620.	U
56-55-3	Benzo(a)anthracene	1400.	
218-01-9	Chrysene	2200.	
117-81-7	bis(2-Ethylhexyl)phthalate	2100.	
117-84-0	Di-n-octylphthalate	620.	U
205-99-2	Benzo(b)fluoranthene	2300.	
207-08-9	Benzo(k)fluoranthene	1500.	
50-32-8	Benzo(a)pyrene	1600.	
193-39-5	Indeno(1,2,3-cd)pyrene	1100.	
53-70-3	Dibenz(a,h)anthracene	580.	J
191-24-2	Benzo(g,h,i)perylene	1200.	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBDY0

Lab Name: CLAYTON ENVIRONMENTAL Contract: 68-D5-0005

Lab Code: CLAYTN Case No.: 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 012

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0348

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 47 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

Number TICs Found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	4.23	15000.	J
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.02	130000.	JNAB µ
3.	286-20-4	7-Oxabicyclo[4.1.0]heptane	5.26	760.	JNB µ
4.		Unknown	5.57	490.	J
5.	822-67-3	2-Cyclohexen-1-ol	5.72	400.	JNB µ
6.		Unknown	6.12	7000.	J
7.	930-68-7	2-Cyclohexen-1-one	6.39	360.	JNB µ
8.		trans-3-Hexene-2,5-dione	6.48	310.	J
9.		Unknown	6.75	350.	J
10.		Unknown	6.98	980.	J
11.		Unknown	7.19	440.	J
12.		Unknown aromatic	16.45	340.	J
13.		Unknown	16.63	330.	J
14.	1861-40-1	Balan	17.81	820.	JN
15.		Unknown	18.19	300.	J
16.	608-73-1	Cyclohexane, 1,2,3,4,5,6-hex	18.30	460.	JN
17.		Unknown	18.69	310.	J
18.	319-86-8	Cyclohexane, 1,2,3,4,5,6-hex	18.88	360.	JN
19.		Unknown	20.21	1100.	J
20.		Unknown	20.80	380.	J
21.	1861-32-1	Dacthal	20.86	590.	JN
22.		Unknown PAH	22.65	500.	J
23.		Unknown PAH	19.89	350.	J
24.	2498-77-3	Benz[a]anthracene, 1-methyl-	25.91	1000.	JN
25.		Unknown	26.20	790.	J
26.	205-82-3	Benzo[j]fluoranthene	29.06	1500.	JN
27.	192-97-2	Benzo[e]pyrene	29.65	3600.	JN
28.		Unknown	31.59	1000.	J
29.		Unknown	32.64	1900.	J
30.		Unknown	33.97	1900.	J

ACH 8-5-96

1027 VM 07/16/96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL3

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:001c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0325

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	0.5	J
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	5.	J
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	12.	
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	1.	J
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	18.	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL3

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:001c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0325

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	1.	J
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	14.	
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	16.	
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	45.	
120-12-7	Anthracene	5.	J
86-74-8	Carbazole	20.	
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	0.9	J
129-00-0	Pyrene	2.	J
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10 ~~8.~~	JBM
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

ark 8-5-96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL3

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:001c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0325

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	135-01-3	Benzene, 1,2-diethyl- + unk.	7.68	14.	JN
2.	493-02-7	Naphthalene, decahydro-, tra	7.86	15.	JN
3.	933-98-2	Benzene, 1-ethyl-2,3-dimethy	8.10	25.	JN
4.	824-63-5	1H-Indene, 2,3-dihydro-2-met	9.00	49.	JN
5.	1559-81-5	Naphthalene, 1,2,3,4-tetrahy	10.14	47.	JN
6.		Unknown	11.95	36.	J
7.		Unknown	12.60	11.	J
8.		Unknown	12.93	13.	J
9.	29812-79-1	Hydroxylamine, O-decyl- +unk	13.50	13.	JN
10.	5557-93-7	Benzene, 1-(1-methylethenyl)	13.80	22.	JN
11.	571-61-9	Naphthalene, 1,5-dimethyl-	14.15	34.	JN
12.	575-41-7	Naphthalene, 1,3-dimethyl-	14.49	44.	JN
13.	581-42-0	Naphthalene, 2,6-dimethyl-	14.55	10.	JN
14.		Unknown	15.23	8.	J
15.	2131-42-2	Naphthalene, 1,4,6-trimethyl	15.86	20.	JN
16.		Unknown	15.94	13.	J
17.	2131-42-2	Naphthalene, 1,4,6-trimethyl	16.19	36.	JN
18.	2245-38-7	Naphthalene, 1,6,7-trimethyl	16.26	16.	JN
19.	2131-42-2	Naphthalene, 1,4,6-trimethyl	16.49	29.	JN
20.	2131-42-2	Naphthalene, 1,4,6-trimethyl	16.68	26.	JN
21.	2489-86-3	Naphthalene, 1-(2-propenyl)-	17.20	18.	JN
22.		Unknown	17.43	12.	J
23.		Unknown	17.60	19.	J
24.		Unknown	18.40	15.	J
25.		Unknown	19.43	9.	J
26.	7372-88-5	Dibenzothiophene, 4-methyl-	19.85	13.	JN
27.	779-02-2	Anthracene, 9-methyl-	20.17	10.	JN
28.	610-48-0	METHYL-PHENANTHRENE OR METHY	20.23	9.	JN
29.	1576-69-8	Phenanthrene, 2,7-dimethyl-	21.12	10.	JN
30.	3674-66-6	Phenanthrene, 2,5-dimethyl-	21.28	9.	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL4

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:002c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0326

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	3.	J
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	6.	J
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	0.7	J
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	13.	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL4

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:002c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0326

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	9.	J
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	11.	
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	32.	
120-12-7	Anthracene	3.	J
86-74-8	Carbazole	17.	
84-74-2	Di-n-butylphthalate	0.6	J
206-44-0	Fluoranthene	0.5	J
129-00-0	Pyrene	1.	J
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10 ~~8~~.	JBu
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

ACH 8.5.96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL4

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:002c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0326

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	25155-15-1	Benzene, methyl(1-methylethy	8.10	29.	JN
2.	95-93-2	Benzene, 1,2,4,5-tetramethyl	8.48	34.	JN
3.	874-35-1	1H-Indene, 2,3-dihydro-5-met	9.00	52.	JN
4.	1559-81-5	Naphthalene, 1,2,3,4-tetrahy	10.14	11.	JN
5.	2471-92-3	Benzo[c]thiophene, 1,3-dihyd	10.79	32.	JN
6.		Unknown	11.93	38.	J
7.	21564-91-0	Naphthalene, 1,2,3,4-tetrahy	12.58	12.	JN
8.	42775-75-7	Naphthalene, 5-ethyl-1,2,3,4	12.91	12.	JN
9.	2613-76-5	1H-Indene, 2,3-dihydro-1,1,3	13.80	21.	JN
10.	569-41-5	Naphthalene, 1,8-dimethyl-	14.13	33.	JN
11.	575-41-7	Naphthalene, 1,3-dimethyl-	14.47	42.	JN
12.	573-98-8	Naphthalene, 1,2-dimethyl-	15.14	14.	JN
13.	2131-42-2	Naphthalene, 1,4,6-trimethyl	15.84	20.	JN
14.		Unknown	15.92	12.	J
15.	829-26-5	Naphthalene, 2,3,6-trimethyl	16.17	34.	JN
16.	2131-42-2	Naphthalene, 1,4,6-trimethyl	16.24	17.	JN
17.	2131-42-2	Naphthalene, 1,4,6-trimethyl	16.47	27.	JN
18.	2131-42-2	Naphthalene, 1,4,6-trimethyl	16.68	26.	JN
19.		Unknown	17.18	17.	J
20.	7320-53-8	Dibenzofuran, 4-methyl- +unk	17.42	20.	JN
21.	529-05-5	Azulene, 7-ethyl-1,4-dimethy	18.11	11.	JN
22.		Unknown	18.40	27.	J
23.		Unknown	18.63	16.	J
24.	4612-63-9	9H-Fluorene, 2,3-dimethyl-	19.41	16.	JN
25.		Unknown	19.69	13.	J
26.	7372-88-5	Dibenzothiophene, 4-methyl-	19.83	20.	JN
27.	610-48-0	METHYL-PHENANTHRENE OR METHY	20.17	13.	JN
28.	779-02-2	Anthracene, 9-methyl-	20.23	17.	JN
29.	1576-67-6	Phenanthrene, 3,6-dimethyl-	21.12	17.	JN
30.	3674-66-6	Phenanthrene, 2,5-dimethyl-	21.26	14.	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL5

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:003c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0327

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	0.6	J
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	1.	J
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL5

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:003c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0327

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10 ~~2~~.	JB U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

ACH 8-5-96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL5

Name: CLAYTON ENVIRONMENTAL Contract: 68-D5-0005

Lab Code: CLAYTN Case No.: 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 003c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0327

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	5.21	2.	J
2.	108-93-0	Cyclohexanol	5.61	44.	JN
3.		1-Formylcyclopentene	5.74	2.	J
4.	111-77-3	Ethanol, 2-(2-methoxyethoxy)	6.30	2.	JNB
5.	930-68-7	2-Cyclohexen-1-one + unk.	6.37	6.	JNB
6.		Unknown	7.50	4.	J
7.	931-17-9	1,2-Cyclohexanediol	7.78	5.	JN
8.		Unknown	17.16	44.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL6

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:004c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0328

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL6

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:004c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0328

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	2.	J
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10 ~~2~~.	JBU
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

ACH 8-5-96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL6

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:004c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0328

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 15

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	5.21	3.	J
2.	108-93-0	Cyclohexanol	5.61	17.	JN
3.	930-68-7	2-Cyclohexen-1-one	6.37	5.	JNBu
4.		Unknown	7.50	2.	J
5.	931-17-9	1,2-Cyclohexanediol	7.78	4.	JN
6.		2-NITROPHENOL-D4	8.72	6.	J
7.	403-19-0	2-FLUORO-4-NITROPHENOL	8.93	4.	JN
8.		Unknown	11.90	5.	J
9.		Unknown	12.61	13.	J
10.		Unknown	14.63	3.	J
11.		Unknown	16.02	5.	J
12.		Unknown	17.18	44.	J
13.		Unknown	18.13	21.	J
14.		Unknown	19.91	2.	J
15.	314-40-9	2,4(1H,3H)-Pyrimidinedione,	20.50	55.	JN
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ach 8-5-96

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL7

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:005c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0329

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	0.6	J
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL7

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:005c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0329

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	19.	Bμ
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

ACH 8-5-96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL7

b Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:005c

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0329

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 6

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	872-53-7	Cyclopentanecarboxaldehyde	4.86	2.	JN
2.	108-93-0	Cyclohexanol	5.61	8.	JN
3.		1-Formylcyclopentene	5.74	5.	J
4.	930-68-7	2-Cyclohexen-1-one	6.37	3.	JNBμ
5.	931-17-9	1,2-Cyclohexanediol	7.78	6.	JN
6.	36653-82-4	1-Hexadecanol	21.12	9.	JN
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ACA 8-5-97

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL8

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:006e

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0330

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	0.5	J
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL8

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:006e

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0330

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	2.	J
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10 ~~7~~.	JBμ
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

acH 8-5-96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL8

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:006e

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0330

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/07/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/13/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs Found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	872-53-7	Cyclopentanecarboxaldehyde	4.86	9.	JN
2.	286-20-4	7-Oxabicyclo[4.1.0]heptane	5.21	21.	JNB µ
3.	822-67-3	2-Cyclohexen-1-ol	5.69	6.	JNB µ
4.		Unknown	5.74	4.	J
5.	62337-93-3	Cyclopropane, 1-chloro-2-eth	6.05	4.	JN
6.		Unknown	6.12	3.	J
7.	930-68-7	2-Cyclohexen-1-one	6.37	3.	JNB µ
8.	107-87-9	2-Pentanone	6.77	4.	JN
9.		Unknown	7.13	6.	J
10.		Unknown	7.17	5.	J
11.		Unknown	7.38	6.	J
12.		Unknown	7.50	29.	J
13.	931-17-9	1,2-Cyclohexanediol + unknow	7.80	42.	JN
14.		Unknown	7.97	3.	J
15.	1521-51-3	Cyclohexene, 3-bromo- + unkn	8.37	8.	JN
16.	403-19-0	2-FLUORO-4-NITROPHENOL + unk	8.93	13.	JN
17.		Unknown	9.02	6.	J
18.		Unknown	9.21	3.	J
19.		Unknown	9.90	18.	J
20.	103-82-2	Benzeneacetic acid + unknown	10.07	6.	JN
21.		Unknown	10.28	59.	J
22.	4883-67-4	2-Nitrocyclohexanone + unkno	10.98	16.	JN
23.		Unknown	11.88	16.	J
24.		Unknown	12.13	13.	J
25.		Unknown	14.05	18.	J
26.		Unknown	14.63	21.	J
27.		Unknown	14.82	5.	J
28.		Unknown	16.82	6.	J
29.		Unknown	17.33	180.	J
30.		Unknown	17.52	5.	J

ach 8-5-91

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL8RE

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:006

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0365

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/15/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/24/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL8RE

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) WATER Lab Sample ID:006

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0365

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/15/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/24/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	0.7	J
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.	J
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEL8RE

Name: CLAYTON ENVIRONMENTAL Contract: 68-D5-0005

Lab Code: CLAYTN Case No.: 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 006

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: E0365

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: decanted: (Y/N) Date Extracted: 6/15/96

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 6/24/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	872-53-7	Cyclopentanecarboxaldehyde	4.42	5.	JN
2.		Unknown	4.82	8.	J
3.		Unknown	5.03	3.	J
4.		Unknown	5.36	8.	J
5.	108-94-1	Cyclohexanone	5.49	2.	JN
6.		Unknown	6.50	3.	J
7.	29538-77-0	Cyclohexanol, 4-chloro-, tra	7.23	23.	JN
8.	1460-57-7	1,2-Cyclohexanediol, trans-	7.51	23.	JN
9.		Unknown	7.74	2.	J
10.		Unknown	8.03	3.	J
11.		Unknown	8.22	3.	J
12.		2-NITROPHENOL-D4	8.37	9.	J
13.	403-19-0	2-FLUORO-4-NITROPHENOL	8.56	8.	JN
14.		Unknown	8.87	2.	J
15.		Unknown	9.44	6.	J
16.	103-82-2	Benzeneacetic acid	9.68	3.	JN
17.		Unknown	9.78	16.	J
18.	105-60-2	2H-Azepin-2-one, hexahydro-	10.05	8.	JN
19.		Unknown	11.29	6.	J
20.		Unknown	11.48	5.	J
21.		Unknown	12.58	2.	J
22.		Unknown	13.38	9.	J
23.		Unknown	14.03	9.	J
24.		Unknown	14.26	4.	J
25.		Unknown	15.57	17.	J
26.		Unknown	16.95	220.	J
27.		Unknown	17.44	2.	J
28.		Unknown	18.34	2.	J
29.		Unknown	19.41	2.	J
30.		Unknown	20.89	2.	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEY6

Lab Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:013

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0349

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 44 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	590.	U
111-44-4	bis(2-Chloroethyl)ether	590.	U
95-57-8	2-Chlorophenol	590.	U
541-73-1	1,3-Dichlorobenzene	590.	U
106-46-7	1,4-Dichlorobenzene	590.	U
95-50-1	1,2-Dichlorobenzene	590.	U
95-48-7	2-Methylphenol	590.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	590.	U
106-44-5	4-Methylphenol	65.	J
621-64-7	N-Nitroso-di-n-propylamine	590.	U
67-72-1	Hexachloroethane	590.	U
98-95-3	Nitrobenzene	590.	U
78-59-1	Isophorone	590.	U
88-75-5	2-Nitrophenol	590.	U
105-67-9	2,4-Dimethylphenol	590.	U
111-91-1	bis(2-Chloroethoxy)methane	590.	U
120-83-2	2,4-Dichlorophenol	58.	J
120-82-1	1,2,4-Trichlorobenzene	590.	U
91-20-3	Naphthalene	70.	J
106-47-8	4-Chloroaniline	590.	U
87-68-3	Hexachlorobutadiene	590.	U
59-50-7	4-Chloro-3-methylphenol	40.	J
91-57-6	2-Methylnaphthalene	77.	J
77-47-4	Hexachlorocyclopentadiene	590.	U
88-06-2	2,4,6-Trichlorophenol	590.	U
95-95-4	2,4,5-Trichlorophenol	1500.	U
91-58-7	2-Chloronaphthalene	590.	U
88-74-4	2-Nitroaniline	1500.	U
131-11-3	Dimethylphthalate	590.	U
208-96-8	Acenaphthylene	100.	J
606-20-2	2,6-Dinitrotoluene	590.	U
99-09-2	3-Nitroaniline	1500.	U
83-32-9	Acenaphthene	590.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEY6

Name:CLAYTON ENVIRONMENTAL Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water) SOIL Lab Sample ID:013

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0349

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 44 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500.	U
100-02-7	4-Nitrophenol	1500.	U
132-64-9	Dibenzofuran	41.	J
121-14-2	2,4-Dinitrotoluene	590.	U
84-66-2	Diethylphthalate	590.	U
7005-72-3	4-Chlorophenyl-phenylether	590.	U
86-73-7	Fluorene	46.	J
100-01-6	4-Nitroaniline	1500.	U
534-52-1	4,6-Dinitro-2-methylphenol	1500.	U
86-30-6	N-Nitrosodiphenylamine (1)	590.	U
101-55-3	4-Bromophenyl-phenylether	590.	U
118-74-1	Hexachlorobenzene	380.	J
87-86-5	Pentachlorophenol	1500.	U
85-01-8	Phenanthrene	870.	
120-12-7	Anthracene	250.	J
86-74-8	Carbazole	180.	J
84-74-2	Di-n-butylphthalate	39.	J
206-44-0	Fluoranthene	2600.	
129-00-0	Pyrene	2300.	
85-68-7	Butylbenzylphthalate	180.	J
91-94-1	3,3'-Dichlorobenzidine	590.	U
56-55-3	Benzo(a)anthracene	1300.	
218-01-9	Chrysene	2200.	
117-81-7	bis(2-Ethylhexyl)phthalate	1700.	
117-84-0	Di-n-octylphthalate	590.	U
205-99-2	Benzo(b)fluoranthene	3000.	
207-08-9	Benzo(k)fluoranthene	2000.	
50-32-8	Benzo(a)pyrene	1900.	
193-39-5	Indeno(1,2,3-cd)pyrene	1800.	
53-70-3	Dibenz(a,h)anthracene	590.	U
191-24-2	Benzo(g,h,i)perylene	1900.	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBEY6

Lab Name: CLAYTON ENVIRONMENTAL Contract: 68-D5-0005

Lab Code: CLAYTN Case No.: 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 013

Sample wt/vol: 30.0 (g/ml) G Lab File ID: E0349

Level: (low/med) LOW Date Received: 6/06/96

% Moisture: 44 decanted: (Y/N) N Date Extracted: 6/10/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

Number TICs Found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	4.23	10000.	JBμ
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.03	150000.	JNABμ
3.	286-20-4	7-Oxabicyclo[4.1.0]heptane	5.26	840.	JNBμ
4.		Unknown	5.57	590.	J
5.	822-67-3	2-Cyclohexen-1-ol	5.72	420.	JNBμ
6.		Unknown	6.12	6800.	J
7.		Unknown	6.29	420.	J
8.	930-68-7	2-Cyclohexen-1-one	6.39	450.	JNBμ
9.		Unknown	6.75	580.	J
10.		Unknown	7.19	620.	J
11.	18161-40-1	Balan	17.81	610.	JN
12.		Unknown	18.38	1300.	J
13.	779-02-2	Anthracene, 9-methyl-	20.25	1100.	JN
14.		Unknown	20.63	460.	J
15.	1861-32-1	Dacthal	20.84	2800.	JN
16.		Unknown	21.30	530.	J
17.		Unknown	21.89	560.	J
18.	243-17-4	11H-Benzo[b]fluorene	22.65	750.	JN
19.		Unknown	25.36	630.	J
20.		Unknown	20.13	450.	J
21.		Unknown PAH	29.07	2700.	J
22.		Unknown	29.38	1300.	J
23.	192-97-2	Benzo[e]pyrene	29.65	3000.	JN
24.		Unknown	31.59	4700.	J
25.		Unknown	32.66	3500.	J
26.		Unknown	33.23	2900.	J
27.	79191-19-8	Isocopalane + unknown	34.07	1500.	JN
28.		Unknown	34.37	1900.	J
29.	79191-19-8	Isocopalane + unknown	35.27	2200.	JN
30.	1058-61-3	(24R)-4-STIGMASTEN-3-ONE	37.56	2200.	JN

ACH 8-5-96

16-07-1 684 ucon/6/96

2E
WATER PESTICIDE SURROGATE RECOVERY

b Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

GC Column(1):DB-5MS 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	EBEL3	50	48	70	80			0
02	EBEL4	60	60	60	42			0
03	EBEL5	65	70	40	40			0
04	EBEL6	65	80	85	85			0
05	EBEL7	70	70	80	80			0
06	EBEL8	75	80	70	70			0
07	EBEL8MS	75	80	75	75			0
08	EBEL8MSD	75	80	60	60			0
09	PBLK1W	80	80	85	85			0
10	PIBLK01	95	95	95	95			0
11	PIBLK10	90	90	90	90			0
12	PIBLK11	85	90	90	90			0
13	PIBLKX1	95	95	90	95			0
14	PIBLKX2	100	100	100	95			0
15	PIBLKX3	100	95	100	95			0
16	PIBLKX4	100	95	100	95			0
17	PIBLKX8	95	90	100	95			0
18	PIBLKX9	105	100	105	100			0
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

RH 7/15/96

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

FORM II PEST-1 OLM03.0

1234 8/17/96

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

GC Column(1):DB-5MS 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	EBDX8	74	98	188*	258*			2	
02	EBDX8DL	0D	0D	0D	0D			~~0~~	4
03	EBDX8MS	59	82	160*	270*			2	
04	EBDX8MSD	82	94	199*	270*			2	
05	EBDX9	62	97	156*	66			1	
06	EBDX9DL	0D	0D	0D	0D			~~0~~	4
07	EBDY0	52	92	104	72			0	
08	EBDY0DL	0D	0D	0D	0D			~~0~~	4
09	EBEY6	67	80	88	16*			1	
10	EBEY6DL	0D	0D	0D	0D			~~0~~	4
11	PBLK1S	83	83	98	90			0	
12									
13									
14									
15									
16									
17									
18									
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21									
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24									
25									
26									
27									
28									
29									
30									

act 8-5-96

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

FORM II PEST-2 OLM03.0

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix Spike - EPA Sample No.: EBEL8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0.008	0.52	102	56-123
Heptachlor	0.50	0.005	0.43	85	40-131
Aldrin	0.50	0.0	0.57	114	40-120
Dieldrin	1.0	0.0	1.1	110	52-126
Endrin	1.0	0.0	1.1	110	56-121
4,4'-DDT	1.0	0.0	1.0	100	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0.55	108	6	15	56-123
Heptachlor	0.50	0.44	87	2	20	40-131
Aldrin	0.50	0.57	114	0	22	40-120
Dieldrin	1.0	1.1	110	0	18	52-126
Endrin	1.0	1.1	110	0	21	56-121
4,4'-DDT	1.0	0.96	96	4	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

MENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Matrix Spike - EPA Sample No.: EBDX8

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	32.	0.0	13.	41*	46-127
Heptachlor	32.	170.	190.	62	35-130
Aldrin	32.	3900.	0.0	-100*	34-132
Dieldrin	64.	0.0	4200.	1000*	31-134
Endrin	64.	0.0	46.	72	42-139
4,4'-DDT	64.	120.	160.	62	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
gamma-BHC(Lindane)	32.	15.	47	14	50	46-127
Heptachlor	32.	210.	125	67*	31	35-130
Aldrin	32.	0.0	-100*	197*	43	34-132
Dieldrin	64.	4300.	1000*	147*	38	31-134
Endrin	64.	51.	80	10	45	42-139
4,4'-DDT	64.	180.	94	41	50	23-134

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

* Values outside of QC limits

RPD: 3 out of 6 outside limits
Spike Recovery: 5 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1S

I Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.:24739 SAS No.: SDG No.:EBDY0

Lab Sample ID:38801-15 Lab File ID:

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc)SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 6/10/96

Date Analyzed (1): 7/07/96 Date Analyzed (2): 7/07/96

Time Analyzed (1):1937 Time Analyzed (2):1937

Instrument ID (1):407 Instrument ID (2):408

GC Column (1):DB-5MS ID: 0.53(mm) GC Column (2):DB-608 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBDX8	38801-10	7/07/96	7/07/96
02	EBDX8DL	38801-10DL	7/10/96	7/10/96
03	EBDX8MS	38801-10MS	7/07/96	7/07/96
04	EBDX8MSD	38801-10MSD	7/07/96	7/07/96
05	EBDX9	38801-11	7/08/96	7/08/96
06	EBDX9DL	38801-11DL	7/07/96	7/07/96
07	EBDY0	38801-12	7/08/96	7/08/96
08	EBDY0DL	38801-12DL	7/08/96	7/08/96
09	EBEY6	38801-13	7/08/96	7/08/96
10	EBEY6DL	38801-13DL	7/08/96	7/08/96
11				
12				
13				
14				
15				
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23				
24				
25				
26				

COMMENTS:

FORM IV PEST OLM03.0

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1W

Lab Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No.: 24739 SAS No.: SDG No.: EBDY0

Lab Sample ID: 38801-8 Lab File ID:

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 6/10/96

Date Analyzed (1): 6/25/96 Date Analyzed (2): 6/25/96

Time Analyzed (1): 1814 Time Analyzed (2): 1814

Instrument ID (1): 407 Instrument ID (2): 408

GC Column (1): DB-5MS ID: 0.53 (mm) GC Column (2): DB-608 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBEL3	38801-1	6/25/96	6/25/96
02	EBEL4	38801-2	6/25/96	6/25/96
03	EBEL5	38801-3	6/25/96	6/25/96
04	EBEL6	38801-4	6/25/96	6/25/96
05	EBEL7	38801-5	6/25/96	6/25/96
06	EBEL8	38801-6	6/25/96	6/25/96
07	EBEL8MS	38801-6MS	6/25/96	6/25/96
08	EBEL8MSD	38801-6MSD	6/25/96	6/25/96
09				
10				
11				
12				
13				
14				
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COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1W

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 38801-8

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: / /

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 6/10/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 6/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1S

Lab Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 38801-15

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

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/07/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 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

RH 7/12/96

FORM I PEST OLM03.0

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX8

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No.: 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 38801-10

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

% Moisture: 48 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/07/96

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 5.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.1	JP
319-85-7	beta-BHC	2.6	JP
319-86-8	delta-BHC	12.	JP
58-89-9	gamma-BHC(Lindane)	16.	U
76-44-8	Heptachlor	170.	
309-00-2	Aldrin	3900.	PEC
1024-57-3	Heptachlor epoxide	30.	P
959-98-8	Endosulfan I	16.	U
60-57-1	Dieldrin	32.	U
72-55-9	4,4'-DDE	6.2	JP
72-20-8	Endrin	32.	U
33213-65-9	Endosulfan II	32.	U
72-54-8	4,4'-DDD	5.9	JP
1031-07-8	Endosulfan sulfate	8.4	JP
50-29-3	4,4'-DDT	120.	
72-43-5	Methoxychlor	21.	JP
53494-70-5	Endrin ketone	32.	U
7421-93-4	Endrin aldehyde	32.	U
5103-71-9	alpha-Chlordane	46.	P
5103-74-2	gamma-Chlordane	310.	PE
8001-35-2	Toxaphene	1600.	U
12674-11-2	Aroclor-1016	320.	U
11104-28-2	Aroclor-1221	640.	U
11141-16-5	Aroclor-1232	320.	U
53469-21-9	Aroclor-1242	320.	U
12672-29-6	Aroclor-1248	320.	U
11097-69-1	Aroclor-1254	320.	U
11096-82-5	Aroclor-1260	320.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX8DL

Lab Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 38801-10DL

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

% Moisture: 48 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/10/96

Injection Volume: 1.0 (uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 5.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3300.	U
319-85-7	beta-BHC	3300.	U
319-86-8	delta-BHC	3300.	U
58-89-9	gamma-BHC(Lindane)	3300.	U
76-44-8	Heptachlor	3300.	U
309-00-2	Aldrin	12000.	DC
1024-57-3	Heptachlor epoxide	3300.	U
959-98-8	Endosulfan I	3300.	U
60-57-1	Dieldrin	14000.	DC
72-55-9	4,4'-DDE	6300.	U
72-20-8	Endrin	6300.	U
33213-65-9	Endosulfan II	6300.	U
72-54-8	4,4'-DDD	6300.	U
1031-07-8	Endosulfan sulfate	6300.	U
50-29-3	4,4'-DDT	6300.	U
72-43-5	Methoxychlor	33000.	U
53494-70-5	Endrin ketone	6300.	U
7421-93-4	Endrin aldehyde	6300.	U
5103-71-9	alpha-Chlordane	3300.	U
5103-74-2	gamma-Chlordane	3300.	U
8001-35-2	Toxaphene	330000.	U
12674-11-2	Aroclor-1016	63000.	U
11104-28-2	Aroclor-1221	130000.	U
11141-16-5	Aroclor-1232	63000.	U
53469-21-9	Aroclor-1242	63000.	U
12672-29-6	Aroclor-1248	63000.	U
11097-69-1	Aroclor-1254	63000.	U
11096-82-5	Aroclor-1260	63000.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX9

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 38801-11

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

% Moisture: 54 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/08/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.4	JP
319-85-7	beta-BHC	9.8	JP
319-86-8	delta-BHC	44.	P
58-89-9	gamma-BHC(Lindane)	37.	U
76-44-8	Heptachlor	59.	
309-00-2	Aldrin	310.	P
1024-57-3	Heptachlor epoxide	21.	JP
959-98-8	Endosulfan I	37.	U
60-57-1	Dieldrin	RH 17/7/96 330 ~~72.~~	U X
72-55-9	4,4'-DDE	13.	JP
72-20-8	Endrin	72.	U
33213-65-9	Endosulfan II	72.	U
72-54-8	4,4'-DDD	12.	JP
1031-07-8	Endosulfan sulfate	72.	U
50-29-3	4,4'-DDT	7.4	JP
72-43-5	Methoxychlor	16.	JP
53494-70-5	Endrin ketone	35.	JP
7421-93-4	Endrin aldehyde	72.	U
5103-71-9	alpha-Chlordane	56.	P
5103-74-2	gamma-Chlordane	RH 17/7/96 330 ~~37.~~	U X
8001-35-2	Toxaphene	3700.	U
12674-11-2	Aroclor-1016	720.	U
11104-28-2	Aroclor-1221	1400.	U
11141-16-5	Aroclor-1232	720.	U
53469-21-9	Aroclor-1242	720.	U
12672-29-6	Aroclor-1248	720.	U
11097-69-1	Aroclor-1254	720.	U
11096-82-5	Aroclor-1260	720.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDX9DL

Lab Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water)SOIL Lab Sample ID: 38801-11DL

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

% Moisture: 54 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/07/96

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N)Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6------	alpha-BHC	370.	U
319-85-7------	beta-BHC	370.	U
319-86-8------	delta-BHC	370.	U
58-89-9-------	gamma-BHC(Lindane)	370.	U
76-44-8-------	Heptachlor	45.	DJP
309-00-2------	Aldrin	250.	DJP
1024-57-3-----	Heptachlor epoxide	370.	U
959-98-8------	Endosulfan I	370.	U
60-57-1-------	Dieldrin	380.	UDJX RU 7/17/96
72-55-9-------	4,4'-DDE	720.	U
72-20-8-------	Endrin	720.	U
33213-65-9----	Endosulfan II	720.	U
72-54-8-------	4,4'-DDD	720.	U
1031-07-8-----	Endosulfan sulfate	720.	U
50-29-3-------	4,4'-DDT	720.	U
72-43-5-------	Methoxychlor	3700.	U
53494-70-5----	Endrin ketone	720.	U
7421-93-4-----	Endrin aldehyde	720.	U
5103-71-9-----	alpha-Chlordane	43.	DJP
5103-74-2-----	gamma-Chlordane	370.	UDJX RU 7/17/96
8001-35-2-----	Toxaphene	37000.	U
12674-11-2----	Aroclor-1016	7200.	U
11104-28-2----	Aroclor-1221	14000.	U
11141-16-5----	Aroclor-1232	7200.	U
53469-21-9----	Aroclor-1242	7200.	U
12672-29-6----	Aroclor-1248	7200.	U
11097-69-1----	Aroclor-1254	7200.	U
11096-82-5----	Aroclor-1260	7200.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDY0

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 38801-12

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

% Moisture: 47 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/08/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	J
319-85-7	beta-BHC	8.0	JP
319-86-8	delta-BHC	19.	JP
58-89-9	gamma-BHC(Lindane)	32.	U
76-44-8	Heptachlor	37.	
309-00-2	Aldrin	140.	P
1024-57-3	Heptachlor epoxide	16.	JP
959-98-8	Endosulfan I	32.	U
60-57-1	Dieldrin	320.	
72-55-9	4,4'-DDE	8.4	JP
72-20-8	Endrin	62.	U
33213-65-9	Endosulfan II	62.	U
72-54-8	4,4'-DDD	6.8	J
1031-07-8	Endosulfan sulfate	62.	U
50-29-3	4,4'-DDT	62.	U
72-43-5	Methoxychlor	7.1	JP
53494-70-5	Endrin ketone	18.	JP
7421-93-4	Endrin aldehyde	62.	U
5103-71-9	alpha-Chlordane	61.	P
5103-74-2	gamma-Chlordane	340.	
8001-35-2	Toxaphene	3200.	U
12674-11-2	Aroclor-1016	620.	U
11104-28-2	Aroclor-1221	1300.	U
11141-16-5	Aroclor-1232	620.	U
53469-21-9	Aroclor-1242	620.	U
12672-29-6	Aroclor-1248	620.	U
11097-69-1	Aroclor-1254	620.	U
11096-82-5	Aroclor-1260	620.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBDY0DL

Lab Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 38801-12DL

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

% Moisture: 47 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/08/96

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	320.	U
319-85-7	beta-BHC	320.	U
319-86-8	delta-BHC	320.	U
58-89-9	gamma-BHC(Lindane)	320.	U
76-44-8	Heptachlor	19.	DJP
309-00-2	Aldrin	120.	DJ
1024-57-3	Heptachlor epoxide	320.	U
959-98-8	Endosulfan I	320.	U
60-57-1	Dieldrin	240.	DJ
72-55-9	4,4'-DDE	620.	U
72-20-8	Endrin	620.	U
33213-65-9	Endosulfan II	620.	U
72-54-8	4,4'-DDD	620.	U
1031-07-8	Endosulfan sulfate	620.	U
50-29-3	4,4'-DDT	620.	U
72-43-5	Methoxychlor	3200.	U
53494-70-5	Endrin ketone	620.	U
7421-93-4	Endrin aldehyde	620.	U
5103-71-9	alpha-Chlordane	23.	DJP
5103-74-2	gamma-Chlordane	270.	DJ
8001-35-2	Toxaphene	32000.	U
12674-11-2	Aroclor-1016	6200.	U
11104-28-2	Aroclor-1221	13000.	U
11141-16-5	Aroclor-1232	6200.	U
53469-21-9	Aroclor-1242	6200.	U
12672-29-6	Aroclor-1248	6200.	U
11097-69-1	Aroclor-1254	6200.	U
11096-82-5	Aroclor-1260	6200.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL3

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 38801-1

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 6/10/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 6/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.005	JP
58-89-9	gamma-BHC(Lindane)	0.038	JP
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.009	JP
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.009	J
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL4

Lab Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water)WATER Lab Sample ID: 38801-2

Sample wt/vol: 1000 (g/ml)ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc)SEPF Date Extracted: 6/10/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 6/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)N pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.009	JP
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.004	J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.015	JP
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL5

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 38801-3

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 6/10/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 6/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.006	JP
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL6

Lab Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 38801-4

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 6/10/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 6/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.004	J
76-44-8	Heptachlor	0.015	J
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL7

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 38801-5

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 6/10/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 6/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEL8

Lab Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) WATER Lab Sample ID: 38801-6

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 6/10/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 6/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.079	P
319-85-7	beta-BHC	0.04	JP
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.008	J
76-44-8	Heptachlor	0.005	JP
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEY6

Name: CLAYTON Contract: 68-D5-0005

Lab Code: CLAYTN Case No. 24739 SAS No.: SDG No.: EBDY0

Matrix: (soil/water) SOIL Lab Sample ID: 38801-13

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

% Moisture: 44 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/08/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1200.	C
319-85-7	beta-BHC	320.	
319-86-8	delta-BHC	90.	P
58-89-9	gamma-BHC(Lindane)	190.	
76-44-8	Heptachlor	11.	JP
309-00-2	Aldrin	5.9	JP
1024-57-3	Heptachlor epoxide	39.	P
959-98-8	Endosulfan I	30.	U
60-57-1	Dieldrin	59.	U
72-55-9	4,4'-DDE	5.1	JP
72-20-8	Endrin	4.7	JP
33213-65-9	Endosulfan II	59.	U
72-54-8	4,4'-DDD	59.	U
1031-07-8	Endosulfan sulfate	59.	U
50-29-3	4,4'-DDT	59.	U
72-43-5	Methoxychlor	5.9	JP
53494-70-5	Endrin ketone	22.	J
7421-93-4	Endrin aldehyde	59.	U
5103-71-9	alpha-Chlordane	2.8	JP
5103-74-2	gamma-Chlordane	12.	JP
8001-35-2	Toxaphene	3000.	U
12674-11-2	Aroclor-1016	590.	U
11104-28-2	Aroclor-1221	1200.	U
11141-16-5	Aroclor-1232	590.	U
53469-21-9	Aroclor-1242	590.	U
12672-29-6	Aroclor-1248	590.	U
11097-69-1	Aroclor-1254	590.	U
11096-82-5	Aroclor-1260	590.	U

1355 JT

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBEY6DL

Lab Name:CLAYTON Contract:68-D5-0005

Lab Code:CLAYTN Case No.24739 SAS No.: SDG No.:EBDY0

Matrix: (soil/water)SOIL Lab Sample ID: 38801-13DL

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

% Moisture: 44 decanted: (Y/N) N Date Received: 6/06/96

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 6/10/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 7/08/96

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N)Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	850.	DC
319-85-7	beta-BHC	300.	D
319-86-8	delta-BHC	80.	DJ
58-89-9	gamma-BHC(Lindane)	160.	DJ
76-44-8	Heptachlor	300.	U
309-00-2	Aldrin	300.	U
1024-57-3	Heptachlor epoxide	36.	DJP
959-98-8	Endosulfan I	300.	U
60-57-1	Dieldrin	590.	U
72-55-9	4,4'-DDE	590.	U
72-20-8	Endrin	590.	U
33213-65-9	Endosulfan II	590.	U
72-54-8	4,4'-DDD	590.	U
1031-07-8	Endosulfan sulfate	590.	U
50-29-3	4,4'-DDT	590.	U
72-43-5	Methoxychlor	3000.	U
53494-70-5	Endrin ketone	590.	U
7421-93-4	Endrin aldehyde	590.	U
5103-71-9	alpha-Chlordane	300.	U
5103-74-2	gamma-Chlordane	300.	U
8001-35-2	Toxaphene	30000.	U
12674-11-2	Aroclor-1016	5900.	U
11104-28-2	Aroclor-1221	12000.	U
11141-16-5	Aroclor-1232	5900.	U
53469-21-9	Aroclor-1242	5900.	U
12672-29-6	Aroclor-1248	5900.	U
11097-69-1	Aroclor-1254	5900.	U
11096-82-5	Aroclor-1260	5900.	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IL

Case No: 24739 Site Name Location: Swift AG Chemical

Contractor or EPA Lab: Columbia Data User: IEPA

No. of Samples: 10 Date Sampled or Data Received: 7-12-96

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: 10 No. of samples received: 10

Received by: Lynette Burnett Date: 7/12/96

Received by LSSS: Lynette Burnett Date: 7/12/96

Review started: 8/6/96 Reviewer Signature: L. Leonard

Total time spent on review: ~~10~~ 72 Date review completed: 8/7/96

Copied by: Lynette Burnett Date: 8-23-96

Mailed to user by: Lynette Burnett Date: 8-23-96

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: Brad Taylor Date: Aug. 28, 1996

Data review received by: _____ Date: _____

Inorganic Data Complete	[X]	Suitable for Intended Purpose	[X] ✓ 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. Data: _____

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

SAS No. (if applicable):
Case No.: 24739 00275

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaOH
   4. H_2SO_4
   5. $K_2CR_2O_7$
   6. Ice only
   7. Other (specify in Column D)
   N. Not preserved

2. Region No.: II
Sampling Co.: TEPA
Sampler (Name): Mark Dynamo
Sampler Signature: Mark Dynamo
3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

4. Date Shipped: 6/5/96
Carrier: Fed-Ex
Airbill Number: [illegible]
5. Ship To: [illegible] Environmental Center, 2[illegible] Rec[illegible] Dr., Novi, MI 48375
ATTN: [illegible]

6. Date Received -- Received by:
Laboratory Contract Number:
Unit Price:
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEAN87	5	L	G	1		X	X					5-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
MEAN88	5	L	G	1		X	X					5-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
MEAN89	5	L	G	1		X	X					5-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
MEANDUP	5	L	G	1		X	X					5-[illegible]	[illegible]	[illegible]	[illegible]	MD			

Shipment for Case Complete? (Y/N): Y
Page ___ of ___
Sample(s) to be Used for Laboratory QC: MEAN87 (MS/MSD)
Additional Sampler Signatures:
Chain of Custody Seal Number(s): [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark Dynamo	6-5 96				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? (Y/N/none)	
		Ruth Higley	6/7/96 1000		

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-6 REV. 3/93

24739
00274

EPA United States Environmental Protection Agency Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

Case No. 24739

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

2. Region No.: II
Sampling Co.: IEPA
Sampler (Name): MARK WAGNER
Sampler Signature: [signature]

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

4. Date Shipped: 6/5/96
Carrier: Fed-Ex
Airbill Number: 8668793150

5. Ship To: Clayton Environmental Services
22375 Roethel Dr.
NOVI, MI 48375
ATTN: Bob Linefield (810) 304-1970

6. Date Received -- Received by:
Laboratory Contract Number:
Unit Price:
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E - RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEANA9	2	L	G	2		X						5025776	GW4	6/5/96 0700	EBEL8	TW			
	2	L	G	3			X					5025777	GW4	6/5/96 0700		TW			
	2	L	G	2		X						5025778	GW4	6/5/96 [illegible]		TW			
	2	L	G	3			X					5025779	GW4	6/5/96 [illegible]		TW			
	2	L	G	2		X						5025780	GW4	6/5/96 [illegible]		TW			
MEANA9	2	L	G	3			X					5025781	GW4	6/5/96 [illegible]		TW			
MEANB0	2	L	G	2		X						5025783	GW5	6/5/96 [illegible]	EBEL6	TW			
"	2	L	G	3			X					5025782	GW5	6/5/96 [illegible]	"	TW			

Shipment for Case Complete? (Y/N)	Page ___ of ___	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		MEANA9 — (GW4)		45245 / 41513

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	6/5/96 1300				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Ruth Higley	Date / Time 6/6/96 1000	Remarks Is custody seal intact? Y/N/none	

A21-012-14 REV.

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EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE [illegible]

G101, 102, 103, FB

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

Case No. 24739

24739 00273

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved	2. Region No.: V	Sampling Co.: IEPA	4. Date Shipped: 6/5/96	Carrier: Fed - Ex
		Sampler (Name): Mark Wagner		Airbill Number: 866 5593150	
		Sampler Signature: Mark Wagner		5. Ship To: Clayton Environmental Consultants, 22345 Roemel Dr., Novi, MI 48375	
		3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD		ATTN: Reb Lockfield (810) 344-1770	

6. Date Received – Received by: [illegible]

Laboratory Contract Number: [illegible] | Unit Price: [illegible]

7. Transfer to: | Date Received:

Received by:

Contract Number: | Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEANA5	2	L	G	2		X						5 025538	G101	6/4/96 1230	EBEL3	MW			
" "	2	L	G	3			X					5 025539	G101	6/4/96 1230	" "	MW			
MEANA6	2	L	G	2		X						5 025540	G102	6/4/96 1230	EBEL4	MW			
" "	2	L	G	3			X					5 025541	G102	6/4/96 1230	" "	MW			
MEANA7	2	L	G	2		X						5 025542	G103	6/4/96 1515	EBEL5	MW			
" "	2	L	G	3			X					5 025543	G103	6/4/96 1515	" "	MW			
MEANA5	4	L	G	2		X						5 025544	FB	6/4/96 1300	EBEL7	MW			
" "	4	L	G	3			X					5 025545	FB	6/4/96 1300	" "	MW			
~~4~~	~~L~~	~~G~~	~~6~~										~~Trip Blank~~						

Shipment for Case Complete? (Y/N)	Page ___ of ___	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
Y		MEANA9 (G104)		45245 / 41613

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark Wagner	6/5/96 1300				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none
		Ruth Higley	6/7/96 1000		

A21-012-14 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: LACHAT-1 Method: AS
Start Date: 06/18/96 End Date: 06/18/96

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
ZZZZZZ	1.00	1648																									
ZZZZZZ	1.00	1648																									
CCV16	1.00	1649																									X
CCB16	1.00	1650																									X
MEANA5D	2.00	1651																									X
MEANA6S	2.00	1651																									X
ZZZZZZ	1.00	1652																									
CCV17	1.00	1653																									X
CCB17	1.00	1654																									X

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: LACHAT-1 Method: AS
Start Date: 06/18/96 End Date: 06/18/96

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
CCV13	1.00	1624																									X
CCB13	1.00	1624																									X
ZZZZZZ	1.00	1625																									
ZZZZZZ	1.00	1626																									
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1628																									
ZZZZZZ	1.00	1629																									
ZZZZZZ	1.00	1630																									
ZZZZZZ	1.00	1630																									
ZZZZZZ	1.00	1631																									
ZZZZZZ	1.00	1632																									
CCV14	1.00	1633																									X
CCB14	1.00	1633																									X
ZZZZZZ	1.00	1634																									
ZZZZZZ	1.00	1635																									
ZZZZZZ	1.00	1636																									
ZZZZZZ	1.00	1636																									
ZZZZZZ	1.00	1637																									
ZZZZZZ	1.00	1638																									
ZZZZZZ	1.00	1639																									
ZZZZZZ	1.00	1639																									
ZZZZZZ	1.00	1640																									
ZZZZZZ	1.00	1641																									
CCV15	1.00	1642																									X
CCB15	1.00	1642																									X
ZZZZZZ	1.00	1643																									
ZZZZZZ	1.00	1644																									
ZZZZZZ	1.00	1645																									
ZZZZZZ	1.00	1645																									
ZZZZZZ	1.00	1646																									
ZZZZZZ	1.00	1647																									

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: LACHAT-1 Method: AS
Start Date: 06/18/96 End Date: 06/18/96

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
S200	1.00	1559																									X
S150	1.00	1559																									X
S100	1.00	1600																									X
S50	1.00	1601																									X
S20	1.00	1602																									X
S10	1.00	1602																									X
S0	1.00	1603																									X
ICV	1.00	1605																									X
ICB	1.00	1606																									X
CCV11	1.00	1606																									X
CCB11	1.00	1607																									X
[illegible]N	1.00	1608																									X
ZZZZZZ	1.00	1609																									
ZZZZZZ	1.00	1609																									
MEANA5	1.00	1610																									X
MEANA5D	1.00	1611																									
MEANA6	1.00	1612																									X
MEANA6S	1.00	1612																									
MEANA7	1.00	1613																									X
MEANA8	1.00	1614																									X
CCV12	1.00	1615																									X
CCB12	1.00	1615																									X
MEANA9	1.00	1616																									X
MEANB0	1.00	1617																									X
PBS	1.00	1618																									X
LCSS	1.00	1618																									X
MEANB7	1.00	1619																									X
MEANB7D	1.00	1620																									X
MEANB7S	1.00	1621																									X
MEANB8	1.00	1621																									X
MEANB9	1.00	1622																									X
MEANC0	1.00	1623																									X

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-3 Method: CV
Start Date: 06/24/96 End Date: 06/24/96

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	1523		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.2	1.00	1524		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.5	1.00	1525		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S1	1.00	1526		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S5	1.00	1527		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S10	1.00	1528		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICV2	1.00	1530		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICB2	1.00	1532		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV21	1.00	1534		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB21	1.00	1535		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CRA2	1.00	1537		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
PBS	1.00	1538		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
LCSS	10.00	1539		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANB7	1.00	1540		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANB7D	1.00	1542		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANB7S	1.00	1543		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANB8	1.00	1544		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANB9	1.00	1545		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANC0	1.00	1546		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1547		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV22	1.00	1549		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB22	1.00	1550		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-3 Method: CV
Start Date: 06/24/96 End Date: 06/24/96

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	1356		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.2	1.00	1357		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.5	1.00	1358		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S1	1.00	1359		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S5	1.00	1400		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S10	1.00	1401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICV	1.00	1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICB	1.00	1404		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV11	1.00	1405		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB11	1.00	1406		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
[illegible]	1.00	1409		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
[illegible]	1.00	1410		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
[illegible]NA5	1.00	1411		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANA6	1.00	1413		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANA7	1.00	1414		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANA8	1.00	1415		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANA9	1.00	1417		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANA9D	1.00	1418		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANA9S	1.00	1420		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEANB0	1.00	1421		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV12	1.00	1422		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB12	1.00	1423		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/01/96 End Date: 07/01/96

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
MEANA9S	1.00	1912		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV14	1.00	1916		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB14	1.00	1920		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB0	1.00	1924		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB0A	1.00	1928	93.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBS	1.00	1932		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBSA	1.00	1936	104.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSS	25.00	1940		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSSA	25.00	1944	101.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV15	1.00	1948		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB15	1.00	1952		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-		-
MEANB7	1.00	1956		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-		-
MEANB7A	1.00	2000	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB7D	1.00	2004		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB7DA	1.00	2008	79.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB7S	1.00	2012		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV16	1.00	2016		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB16	1.00	2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ZZZZZZ	1.00	2024		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB8	1.00	2028		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB8A	1.00	2032	98.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB9	1.00	2036		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANB9A	1.00	2040	100.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANC0	1.00	2044		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEANC0A	1.00	2048	100.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSS	10.00	2052		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSSA	10.00	2056	96.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV17	1.00	2100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB17	1.00	2104		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/01/96 End Date: 07/01/96

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	1704																									
S0	1.00	1708																						X			
S10	1.00	1712																						X			
S20	1.00	1716																						X			
S40	1.00	1720																						X			
S60	1.00	1724																						X			
ICV	1.00	1728																						X			
ICB	1.00	1732																						X			
CCV11	1.00	1736																						X			
CCB11	1.00	1740																						X			
[illegible]	1.00	1744																						X			
[illegible]	1.00	1748																						X			
FBWA	1.00	1752	97.0																					X			
LCSW	1.00	1756																						X			
LCSWA	1.00	1800	88.5																					X			
CCV12	1.00	1804																						X			
CCB12	1.00	1808																						X			
ZZZZZZ	1.00	1812																									
MEANA5	1.00	1816																						X			
MEANA5A	1.00	1820	99.5																					X			
MEANA6	1.00	1824																						X			
MEANA6A	1.00	1828	101.5																					X			
MEANA7	1.00	1832																						X			
MEANA7A	1.00	1836	89.0																					X			
CCV13	1.00	1840																						X			
CCB13	1.00	1844																						X			
MEANA8	1.00	1848																						X			
MEANA8A	1.00	1852	102.0																					X			
MEANA9	1.00	1856																						X			
MEANA9A	1.00	1900	83.5																					X			
MEANA9D	1.00	1904																						X			
MEANA9DA	1.00	1908	86.5																					X			

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-2 Method: F
Start Date: 06/21/96 End Date: 06/21/96

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
CCV24	1.00	1556		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB24	1.00	1600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANA9	5.00	1604		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANA9A	5.00	1608	99.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANA9D	5.00	1612		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANA9DA	5.00	1616	98.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANA9S	5.00	1620		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBS	1.00	1624		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBSA	1.00	1628	112.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS	10.00	1632		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSSA	10.00	1636	101.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV25	1.00	1640		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB25	1.00	1644		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB7	1.00	1648		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB7A	1.00	1652	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB7D	1.00	1656		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB7DA	1.00	1700	89.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB7S	1.00	1704		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB8	1.00	1708		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB8A	1.00	1712	84.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB9	1.00	1716		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANB9A	1.00	1720	81.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV26	1.00	1724		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB26	1.00	1728		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANC0	1.00	1732		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEANC0A	1.00	1736	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV27	1.00	1740		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB27	1.00	1744		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-2 Method: F
Start Date: 06/21/96 End Date: 06/21/96

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	1348																			X						
S5	1.00	1352																			X						
S30	1.00	1356																			X						
S40	1.00	1400																			X						
S50	1.00	1404																			X						
ICV2	1.00	1408																			X						
ICB2	1.00	1412																			X						
CCV21	1.00	1416																			X						
CCB21	1.00	1420																			X						
CRA2	1.00	1424																			X						
[illegible]NA9	1.00	1428																									
[illegible]NA9A	1.00	1432	50.0																								
[illegible]ANA9D	1.00	1436																									
MEANA9DA	1.00	1440	39.0																								
MEANA9S	1.00	1444																									
MEANA5	1.00	1448																			X						
MEANA5A	1.00	1452	85.0																		X						
MEANA6	1.00	1456																			X						
MEANA6A	1.00	1500	83.0																		X						
CCV22	1.00	1504																			X						
CCB22	1.00	1508																			X						
MEANA7	1.00	1512																			X						
MEANA7A	1.00	1516	40.0																		X						
MEANA8	1.00	1520																			X						
MEANA8A	1.00	1524	96.0																		X						
MEANB0	1.00	1528																			X						
MEANB0A	1.00	1532	66.0																		X						
CCV23	1.00	1536																			X						
CCB23	1.00	1540																			X						
ZZZZZZ	1.00	1544																									
ZZZZZZ	1.00	1548																									
ZZZZZZ	1.00	1552																									

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-2 Method: F
Start Date: 06/21/96 End Date: 06/21/96

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	1204		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	1208		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S30	1.00	1212		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S40	1.00	1216		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	1220		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	1224		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	1228		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV11	1.00	1232		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB11	1.00	1236		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	1240		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBW	1.00	1244		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBWA	1.00	1248	97.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSW	1.00	1252		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSWA	1.00	1256	97.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV12	1.00	1300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB12	1.00	1304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-5 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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
CCB24	1.00	1432													X												

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-5 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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	1224		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S3	1.00	1228		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S30	1.00	1232		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S40	1.00	1236		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S50	1.00	1240		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV2	1.00	1244		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB2	1.00	1248		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV21	1.00	1252		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB21	1.00	1256		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00	1300		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBS	1.00	1304		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBSA	1.00	1308	91.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	50.00	1312		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSSA	50.00	1316	111.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7	100.00	1320		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7A	100.00	1324	103.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7D	100.00	1328		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7DA	100.00	1332	108.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7S	100.00	1336		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV22	1.00	1340		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB22	1.00	1344		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB8	100.00	1348		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB8A	100.00	1352	109.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB9	100.00	1356		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANB9A	100.00	1400	106.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANC0	100.00	1404		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANC0A	100.00	1408	-198.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV23	1.00	1412		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB23	1.00	1416		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANC0	200.00	1420		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANC0A	200.00	1424	110.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV24	1.00	1428		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-5 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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
MEANA7A	1.00	1012	121.5												X												
MEANA8	1.00	1016													X												
MEANA8A	1.00	1020	93.5												X												
CCV15	1.00	1024													X												
CCB15	1.00	1028													X												
MEANB0	1.00	1032													X												
MEANB0A	1.00	1036	88.0												X												
CCV16	1.00	1040													X												
CCB16	1.00	1044													X												

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-5 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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	0804		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S3	1.00	0808		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S30	1.00	0812		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S40	1.00	0816		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S50	1.00	0820		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	0824		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	0828		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV11	1.00	0832		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB11	1.00	0836		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00	0840		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBW	1.00	0844		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBWA	1.00	0848	100.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSW	1.00	0852		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSWA	1.00	0856	97.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV12	1.00	0900		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB12	1.00	0904		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9	1.00	0908		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9A	1.00	0912	90.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9D	1.00	0916		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9DA	1.00	0920	90.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9S	1.00	0924		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV13	1.00	0928		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB13	1.00	0932		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0936		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0940		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV14	1.00	0944		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB14	1.00	0948		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA5	1.00	0952		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA5A	1.00	0956	103.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA6	1.00	1000		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA6A	1.00	1004	102.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEANA7	1.00	1008		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-4 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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
ZZZZZZ	1.00	1450																									
ZZZZZZ	1.00	1452																									
CCV116	1.00	1454				X																					
CCB116	1.00	1456				X																					
MEANC00	2.00	1458				X																					
MEANC01	2.00	1500				X																					
MEANC02	2.00	1502				X																					
MEANC03	2.00	1504				X																					
CCV117	1.00	1506				X																					
CCB117	1.00	1508				X																					

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-4 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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
MEANA9D0	1.00	1346																									
MEANA9D1	1.00	1348																									
MEANA9D2	1.00	1350																									
MEANA9D3	1.00	1352																									
ZZZZZZ	1.00	1354																									
ZZZZZZ	1.00	1356																									
ZZZZZZ	1.00	1358																									
ZZZZZZ	1.00	1400																									
CCV113	1.00	1402				X																					
CCB113	1.00	1404				X																					
ZZZZZZ	1.00	1406																									
ZZZZZZ	1.00	1408																									
CCV114	1.00	1410				X																					
CCB114	1.00	1412				X																					
MEANA70	1.00	1414				X																					
MEANA71	1.00	1416				X																					
MEANA72	1.00	1418				X																					
MEANA73	1.00	1420				X																					
MEANB80	1.00	1422				X																					
MEANB81	1.00	1424				X																					
MEANB82	1.00	1426				X																					
MEANB83	1.00	1428				X																					
MEANB90	1.00	1430				X																					
MEANB91	1.00	1432				X																					
MEANB92	1.00	1434				X																					
MEANB93	1.00	1436				X																					
MEANA9D0	1.00	1438				X																					
MEANA9D1	1.00	1440				X																					
MEANA9D2	1.00	1442				X																					
MEANA9D3	1.00	1444				X																					
CCV115	1.00	1446				X																					
CCB115	1.00	1448				X																					

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-4 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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
CCV19	1.00	1220		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB19	1.00	1224		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1228		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1232		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1240		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7D	1.00	1244		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7DA	1.00	1248	63.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7S	1.00	1252		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV110	1.00	1256		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB110	1.00	1300		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZ	1.00	1302		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZ	1.00	1304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV111	1.00	1306		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB111	1.00	1308		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB70	2.00	1310		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB71	2.00	1312		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB72	2.00	1314		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB73	2.00	1316		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7D0	5.00	1318		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7D1	5.00	1320		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7D2	5.00	1322		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB7D3	5.00	1324		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1326		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1328		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1330		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1332		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV112	1.00	1334		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB112	1.00	1336		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA90	1.00	1338		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA91	1.00	1340		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA92	1.00	1342		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA93	1.00	1344		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-4 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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
MEANB0A	1.00	1012	84.0			X																					
CCV14	1.00	1016				X																					
CCB14	1.00	1020				X																					
ZZZZZZ	1.00	1024																									
ZZZZZZ	1.00	1028																									
CCV15	1.00	1032				X																					
CCB15	1.00	1036				X																					
MEANA6	4.00	1040				X																					
MEANA6A	4.00	1044	91.0			X																					
PBS	1.00	1048				X																					
PBSA	1.00	1052	94.5			X																					
LCSS	250.00	1056				X																					
LCSSA	250.00	1100	95.5			X																					
CCV16	1.00	1104				X																					
CCB16	1.00	1108				X																					
ZZZZZZ	1.00	1112																									
ZZZZZZ	1.00	1116																									
CCV17	1.00	1120				X																					
CCB17	1.00	1124				X																					
MEANB7	1.00	1128																									
MEANB7A	1.00	1132	55.0																								
MEANB7D	1.00	1136																									
MEANB7DA	1.00	1140	-9999.9																								
MEANB7S	1.00	1144																									
MEANB8	1.00	1148																									
MEANB8A	1.00	1152	45.5																								
MEANB9	1.00	1156																									
MEANB9A	1.00	1200	45.5																								
CCV18	1.00	1204				X																					
CCB18	1.00	1208				X																					
MEANC0	1.00	1212																									
MEANC0A	1.00	1216	49.5																								

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: VARIAN-4 Method: F
Start Date: 06/20/96 End Date: 06/20/96

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	0804		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S10	1.00	0808		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S20	1.00	0812		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S40	1.00	0816		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S60	1.00	0820		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	0824		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	0828		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV11	1.00	0832		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB11	1.00	0836		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00	0840		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W	1.00	0844		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NA	1.00	0848	99.0	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSW	1.00	0852		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSWA	1.00	0856	96.5	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV12	1.00	0900		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB12	1.00	0904		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9	1.00	0908		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9A	1.00	0912	41.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9D	1.00	0916		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9DA	1.00	0920	51.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA9S	1.00	0924		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV13	1.00	0928		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB13	1.00	0932		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA5	1.00	0936		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA5A	1.00	0940	95.5	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA6	1.00	0944		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA6A	1.00	0948	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA7	1.00	0952		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA7A	1.00	0956	78.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA8	1.00	1000		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANA8A	1.00	1004	94.5	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEANB0	1.00	1008		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: TJA-1 Method: P
Start Date: 07/04/96 End Date: 07/04/96

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	1029					X																				
S	1.00	1031					X																				
S	1.00	1033																									
ICV3	1.00	1036					X																				
ICB3	1.00	1039					X																				
CCV31	1.00	1041					X																				
CCB31	1.00	1043					X																				
ICSAI3	1.00	1047					X																				
ICSABI3	1.00	1050					X																				
CCV32	1.00	1052					X																				
CCB32	1.00	1054					X																				
MEANB7A	1.00	1057					X																				
ICSAF3	1.00	1100					X																				
ICSABF3	1.00	1104					X																				
CCV33	1.00	1106					X																				
CCB33	1.00	1108					X																				

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: TJA-1 Method: P
Start Date: 06/27/96 End Date: 06/27/96

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	1828		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	1830			X		X		X		X								X	X		X	X				
S	1.00	1832		X				X		X		X	X	X		X	X								X	X	
ICV2	1.00	1835		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICB2	1.00	1838		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV21	1.00	1841		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB21	1.00	1843		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRII2	1.00	1845			X			X	X		X	X	X				X		X			X			X	X	
ICSAI2	1.00	1847		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
ICSABI2	1.00	1849		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
CCV22	1.00	1852		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]B22	1.00	1854		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	1856		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	1.00	1858		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANB7	1.00	1903		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANB7D	1.00	1905		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANB7S	1.00	1909			X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
MEANB8	1.00	1915		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANB8L	5.00	1919		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANB9	1.00	1932		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANC0	1.00	1935		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV23	1.00	1937		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB23	1.00	1939		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRIF2	1.00	1942			X			X	X		X	X	X				X		X			X			X	X	
ICSAF2	1.00	1944		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
ICSABF2	1.00	1946		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
CCV24	1.00	1948		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB24	1.00	1951		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: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5
Instrument ID Number: TJA-1 Method: P
Start Date: 06/20/96 End Date: 06/20/96

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	1133		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	1135			X		X		X		X								X	X		X	X				
S	1.00	1137		X				X		X		X	X	X		X	X								X	X	
ICV	1.00	1142		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICB	1.00	1144		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV11	1.00	1146		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB11	1.00	1148		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRII	1.00	1150			X			X	X		X	X	X				X		X			X			X	X	
ICSAI	1.00	1152		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
ICSABI	1.00	1155		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
CCV12	1.00	1157		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB12	1.00	1159		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	[illegible]	
PBW	1.00	1203		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	[illegible]	
LCSW	1.00	1205		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA5	1.00	1208		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA6	1.00	1210		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA7	1.00	1213		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA8	1.00	1221		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA9	1.00	1227		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA9L	5.00	1229		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA9D	1.00	1235		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANA9S	1.00	1237		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV13	1.00	1240		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB13	1.00	1242		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEANB0	1.00	1249		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1254																									
ZZZZZZ	1.00	1256																									
CRIF	1.00	1302			X			X	X		X	X	X				X		X			X			X	X	
ICSAF	1.00	1304		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
ICSABF	1.00	1307		X	X		X	X	X	X	X	X	X	X		X	X		X			X			X	X	
CCV14	1.00	1309		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB14	1.00	1311		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	06/21/96	1.00	200
MEANB7	06/21/96	1.00	200
MEANB7D	06/21/96	1.00	200
MEANB7S	06/21/96	1.00	200
MEANB8	06/21/96	1.00	200
MEANB9	06/21/96	1.00	200
MEANC0	06/21/96	1.00	200
PBS	06/21/96	1.00	200

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSW	06/19/96		100
MEANA5	06/19/96		100
MEANA6	06/19/96		100
MEANA7	06/19/96		100
MEANA8	06/19/96		100
MEANA9	06/19/96		100
MEANA9D	06/19/96		100
MEANA9S	06/19/96		100
MEANB0	06/19/96		100
PBW	06/19/96		100

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: F

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	06/19/96	1.00	200
MEANB7	06/19/96	1.00	200
MEANB7D	06/19/96	1.00	200
MEANB7S	06/19/96	1.00	200
MEANB8	06/19/96	1.00	200
MEANB9	06/19/96	1.00	200
MEANC0	06/19/96	1.00	200
PBS	06/19/96	1.00	200

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: F

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	06/19/96	1.00	200
LCSW	06/19/96		100
MEANA5	06/19/96		100
MEANA6	06/19/96		100
MEANA7	06/19/96		100
MEANA8	06/19/96		100
MEANA9	06/19/96		100
MEANA9D	06/19/96		100
MEANA9S	06/19/96		100
MEANB0	06/19/96		100
PBW	06/19/96		100

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	06/24/96	0.22	100
MEANB7	06/24/96	0.21	100
MEANB7D	06/24/96	0.25	100
MEANB7S	06/24/96	0.21	100
MEANB8	06/24/96	0.25	100
MEANB9	06/24/96	0.20	100
MEANC0	06/24/96	0.25	100
PBS	06/24/96	0.20	100
S0	06/24/96		100
S0.2	06/24/96		100
S0.5	06/24/96		100
S1	06/24/96		100
S10	06/24/96		100
S5	06/24/96		100

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
MEANA5	06/24/96		100
MEANA6	06/24/96		100
MEANA7	06/24/96		100
MEANA8	06/24/96		100
MEANA9	06/24/96		100
MEANA9D	06/24/96		100
MEANA9S	06/24/96		100
MEANB0	06/24/96		100
PBW	06/24/96		100
S0	06/24/96		100
S0.2	06/24/96		100
S0.5	06/24/96		100
S1	06/24/96		100
S10	06/24/96		100
S5	06/24/96		100

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	06/17/96	5.00	250
MEANB7	06/17/96	5.20	250
MEANB7D	06/17/96	5.07	250
MEANB7S	06/17/96	5.28	250
MEANB8	06/17/96	5.08	250
MEANB9	06/17/96	5.12	250
MEANC0	06/17/96	5.08	250
PBS	06/17/96	5.00	250

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
ICV	06/17/96		250
MEANA5	06/17/96		250
MEANA5D	06/17/96		250
MEANA6	06/17/96		250
MEANA6S	06/17/96		250
MEANA7	06/17/96		250
MEANA8	06/17/96		250
MEANA9	06/17/96		250
MEANB0	06/17/96		250
PBW	06/17/96		250

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

ICP ID Number: Date: 04/19/96

Flame AA ID Number: LACHAT-1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide	570.00		10.0	1.0	AS

Comments:

U.S. EPA - CLP

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

ICP ID Number: Date: 04/19/96

Flame AA ID Number:

Furnace AA ID Number: VARIAN-5

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead	283.30	BZ	3.0	0.9	F
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

U.S. EPA - CLP

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

ICP ID Number: Date: 04/19/96

Flame AA ID Number:

Furnace AA ID Number: VARIAN-4

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic	193.70	BZ	10.0	0.6	F
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium	276.80	BZ	10.0	0.5	F
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

ICP ID Number: Date: 04/19/96

Flame AA ID Number: VARIAN-3

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70	BD	0.2	0.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

ICP ID Number: Date: 04/19/96

Flame AA ID Number:

Furnace AA ID Number: VARIAN-2

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium	196.00	BZ	5.0	1.0	F
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

U.S. EPA - CLP

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

ICP ID Number: TJA-1 Date: 04/19/96

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200.0	11.2	P
Antimony	206.80		60.0	11.2	P
Arsenic			10.0		
Barium	493.60		200.0	1.1	P
Beryllium	313.00		5.0	0.4	P
Cadmium	228.80		5.0	3.3	P
Calcium	317.90		5000.0	5.6	P
Chromium	267.70		10.0	2.3	P
Cobalt	228.60		50.0	2.4	P
Copper	324.70		25.0	1.6	P
Iron	259.90		100.0	1.9	P
Lead			3.0		
Magnesium	383.20		5000.0	69.4	P
Manganese	257.60		15.0	1.0	P
Mercury			0.2		
Nickel	231.60		40.0	9.9	P
Potassium	766.50		5000.0	508.3	P
Selenium			5.0		
Silver	328.00		10.0	1.3	P
Sodium	588.90		5000.0	42.4	P
Thallium			10.0		
Vanadium	292.40		50.0	1.7	P
Zinc	213.80		20.0	1.3	P
Cyanide			10.0		

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEANA5D

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								P
Antimony								P
Arsenic								F
Barium								P
Beryllium								P
Cadmium								P
Calcium								P
Chromium								P
Cobalt								P
Copper								P
Iron								P
Lead								F
Magnesium								P
Manganese								P
Mercury								CV
Nickel								P
Potassium								P
Selenium								F
Silver								P
Sodium								P
Thallium								F
Vanadium								P
Zinc								P
Cyanide		0.8718	B	2.1277	U	200.0		AS

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEANB7D

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 52.4 % Solids for Duplicate: 49.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		21307.6180		24177.7710		12.6		P
Antimony		6.4809	B	12.7137	B	64.9		P
Arsenic	3.8	30.9411		37.8055		20.0	*	F
Barium		446.5115		385.4008		14.7		P
Beryllium		0.6870	B	0.7863	B	13.5		P
Cadmium		19.2290		21.9198		13.1		P
Calcium		48122.4040		32319.4580		39.3	*	P
Chromium		68.1336		70.0611		2.8		P
Cobalt		9.9122	B	10.3588	B	4.4		P
Copper		336.4122		370.4389		9.6		P
Iron		59551.2970		57228.1670		4.0		P
Lead		1007.6336		961.8321		4.7		F
Magnesium	1908.4	12575.0380		4810.1756		89.3	*	P
Manganese		805.8969		793.7595		1.5		P
Mercury		2.1413		2.1766		1.6		CV
Nickel	15.3	40.4466		34.3282		16.4		P
Potassium		10540.8510		12343.7860		15.8		P
Selenium		1.2977	B	1.6031	B	21.1		F
Silver		0.8740	B	1.9160	B	74.7		P
Sodium		1051.7481	B	1238.0267	B	16.3		P
Thallium		0.1908	U	0.1908	U			F
Vanadium	19.1	68.6947		74.4885		8.1		P
Zinc		4586.7557		4703.5038		2.5		P
Cyanide	0.9	2.6898		2.7214		1.2		AS

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEANA9D

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		17609.7900		17567.4300		0.2		P
Antimony		11.2000	U	11.2000	U			P
Arsenic	10.0	30.8716		33.0964		7.0		F
Barium		24.3100	B	24.3100	B	0.0		P
Beryllium		1.7300	B	1.7300	B	0.0		P
Cadmium		193.1800		189.9400		1.7		P
Calcium		196535.7000		195299.9000		0.6		P
Chromium		7.1700	B	7.8400	B	8.9		P
Cobalt	50.0	53.7400		54.7100		1.8		P
Copper	25.0	100.2200		99.5700		0.7		P
Iron		1575.6900		1574.4100		0.1		P
Lead		1.5000	B	1.2000	B	22.2		F
Magnesium		41933.7000		41817.6800		0.3		P
Manganese		6073.4100		6047.0400		0.4		P
Mercury		0.1000	U	0.1000	U			CV
Nickel	40.0	183.2900		177.1000		3.4		P
Potassium		204349.9000		204455.4000		0.1		P
Selenium		5.0000	U	5.0000	U			F
Silver		1.3000	U	1.3000	U			P
Sodium	5000.0	11935.2600		11966.8500		0.3		P
Thallium		0.5000	U	0.5000	U			F
Vanadium		16.1900	B	15.9000	B	1.8		P
Zinc		31499.2800		31260.6800		0.8		P
Cyanide								AS

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEANB7A

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

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									NR
Arsenic									NR
Barium		3375.90		1169.86		2000.0	110.3		P
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									
Iron									
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEANA6S

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
opper									NR
ıron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	75-125	49.7656		2.6909	B	53.76	87.6		AS

Comments:

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEANB7S

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 52.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	174.8626		6.4809	B	190.84	88.2		P
Arsenic	75-125	16.2977		30.9411		15.27	-95.9	N	F
Barium	75-125	1604.0992		446.5115		763.36	151.6	N	P
Beryllium	75-125	17.1527		0.6870	B	19.08	86.3		P
Cadmium	75-125	41.2863		19.2290		19.08	115.6		P
Calcium									NR
Chromium	75-125	136.6527		68.1336		76.34	89.8		P
Cobalt	75-125	181.5802		9.9122	B	190.84	90.0		P
Copper	75-125	438.8702		336.4122		95.42	107.4		
Iron		68495.4190		59551.2970		381.68	2343.4		
Lead		980.9160		1007.6336		7.63	-350.2		F
Magnesium									NR
Manganese		1060.1298		805.8969		190.84	133.2		P
Mercury	75-125	2.5714		2.1413		0.90	47.8	N	CV
Nickel	75-125	209.3969		40.4466		190.84	88.5		P
Potassium									NR
Selenium	75-125	4.7328		1.2977	B	3.82	89.9		F
Silver	75-125	17.2634		0.8740	B	19.08	85.9		P
Sodium									NR
Thallium	75-125	15.0763		0.1908	U	19.08	79.0		F
Vanadium	75-125	250.0916		68.6947		190.84	95.1		P
Zinc		5089.4198		4586.7557		190.84	263.4		P
Cyanide	75-125	11.0579		2.6898		9.04	92.6		AS

Comments:

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEANA9S

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Level (low/med): LOW
% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		19476.3600		17609.7900		2000.00	93.3		P
Antimony	75-125	471.4200		11.2000	U	500.00	94.3		P
Arsenic	75-125	50.4000		30.8716		40.00	48.8	N	F
Barium	75-125	1943.4200		24.3100	B	2000.00	96.0		P
Beryllium	75-125	50.0600		1.7300	B	50.00	96.7		P
Cadmium	75-125	241.6100		193.1800		50.00	96.9		P
Calcium									NR
Chromium	75-125	191.3400		7.1700	B	200.00	92.1		P
Cobalt	75-125	515.8100		53.7400		500.00	92.4		P
Copper	75-125	346.5500		100.2200		250.00	98.5		P
Iron	75-125	2485.4200		1575.6900		1000.00	91.0		P
Lead	75-125	19.2000		1.5000	B	20.00	88.5		F
Magnesium									NR
Manganese		6492.4200		6073.4100		500.00	83.8		P
Mercury	75-125	1.0100		0.1000	U	1.00	101.0		CV
Nickel	75-125	646.2500		183.2900		500.00	92.6		P
Potassium									NR
Selenium	75-125	13.0000	B	5.0000	U	10.00	130.0	N	F
Silver	75-125	36.6600		1.3000	U	50.00	73.3	N	P
Sodium									NR
Thallium	75-125	39.3000		0.5000	U	50.00	78.6		F
Vanadium	75-125	504.7800		16.1900	B	500.00	97.7		P
Zinc		31708.2500		31499.2800		500.00	41.8		P
Cyanide									NR

Comments:

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium	1.1	U	1.1	U	1.1	U	1.1	U			P
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			1.0	U							F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			64.4	B							P
Antimony			11.2	U							P
Arsenic											
Barium			1.1	U							P
Beryllium			0.4	U							P
Cadmium			3.3	U							P
Calcium			69.6	B							P
Chromium			2.3	U							P
Cobalt			2.4	U							P
Copper			1.6	U							P
Iron			29.5	B							P
Lead			0.9	B							F
Magnesium			71.9	B							P
Manganese			1.0	U							P
Mercury											
Nickel			9.9	U							P
Potassium			508.3	U							P
Selenium			1.0	U	1.0	U	1.0	U			F
Silver			1.3	U							P
Sodium			42.4	U							P
Thallium											
Vanadium			1.7	U							P
Zinc			1.4	B							P
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	13.9	B	11.2	U	72.5	B	11.2	U			P
Antimony	11.2	U	11.2	U	11.2	U	11.2	U			P
Arsenic											
Barium	1.7	B	1.1	U	1.1	U	1.1	U			P
Beryllium	0.4	U	0.4	U	-0.4	B	0.4	U			P
Cadmium	3.3	U	3.3	U	3.3	U	3.3	U			P
Calcium	7.6	B	5.6	U	74.8	B	34.4	B			P
Chromium	-2.3	B	2.3	U	2.3	U	-4.1	B			P
Cobalt	2.4	U	2.4	U	2.4	U	2.4	U			P
Copper	1.7	B	1.6	U	1.6	U	1.6	U			P
Iron	1.9	U	1.9	U	30.1	B	18.6	B			P
Lead	0.9	U	0.9	U	0.9	U	0.9	U			F
Magnesium	69.4	U	69.4	U	95.0	B	69.4	U			P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U			P
Mercury	0.1	U	0.1	B	0.1	B					CV
Nickel	9.9	U	9.9	U	9.9	U	9.9	U			P
Potassium	508.3	U	508.3	U	508.3	U	508.3	U			P
Selenium	1.0	U	1.0	U	1.0	U	1.0	U			F
Silver	1.3	U	1.3	U	1.3	U	1.3	U			P
Sodium	42.4	U	42.4	U	42.4	U	42.4	U			P
Thallium											
Vanadium	1.7	U	1.7	U	1.7	U	1.7	U			P
Zinc	1.3	U	1.3	U	1.3	U	10.1	B			P
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

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											
Antimony											
Arsenic			0.6	U	0.6	U					F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

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											
Antimony											
Arsenic			0.7	B	0.6	U	0.6	U			F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

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											
Antimony											
Arsenic			0.6	U	0.6	U	0.6	U			F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

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											
Antimony											
Arsenic			0.6	U	0.6	U	0.6	U			F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			0.5	U							F
Vanadium											
Zinc											
Cyanide			1.0	U							AS

U.S. EPA - CLP

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BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

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			68.1	B					10.844	B	P
Antimony			11.2	U					2.240	U	P
Arsenic			0.6	U	0.6	U	0.6	U	0.120	U	F
Barium			1.1	B					0.220	U	P
Beryllium			0.4	U					0.080	U	P
Cadmium			3.3	U					0.660	U	P
Calcium			236.8	B					8.818	B	P
Chromium			4.7	B					0.460	U	P
Cobalt			2.4	U					0.480	U	P
Copper			11.8	B					0.416	B	P
Iron			54.1	B					4.250	B	P
Lead			1.2	B	2.2	B	2.0	B	0.180	U	F
Magnesium			107.7	B					13.880	U	P
Manganese			1.0	U					0.200	U	P
Mercury									0.050	U	CV
Nickel			9.9	U					1.980	U	P
Potassium			508.3	U					101.660	U	P
Selenium									0.200	U	F
Silver			1.3	U					0.260	U	P
Sodium			42.4	U					8.480	U	P
Thallium			-0.5	B	-0.9	B	-1.3	B	0.100	U	F
Vanadium			1.7	U					0.340	U	P
Zinc			9.6	B					0.574	B	P
Cyanide			1.0	U	1.0	U	1.0	U	0.050	U	AS

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3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	11.2	U	11.2	U	67.1	B	11.2	U	20.580	B	P
Antimony	11.2	U	11.2	U	11.2	U	11.2	U	11.200	U	P
Arsenic	0.6	U	0.6	U	0.6	U	0.6	U	0.600	U	F
Barium	3.7	B	1.1	B	1.1	U	1.1	U	1.100	U	P
Beryllium	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Cadmium	3.3	U	3.3	U	3.3	U	3.3	U	3.300	U	P
alcium	8.9	B	5.6	U	91.6	B	15.8	B	34.770	B	P
hromium	2.3	U	3.8	B	2.7	B	2.5	B	2.300	U	P
Cobalt	2.4	U	2.4	U	2.4	U	2.4	U	2.400	U	P
Copper	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Iron	1.9	U	1.9	U	34.1	B	1.9	U	10.560	B	P
Lead	1.2	B	1.4	B	1.2	B	0.9	U	1.400	B	F
Magnesium	69.4	U	69.4	U	80.1	B	69.4	U	69.400	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.1	U	0.1	U	0.1	B			0.100	U	CV
Nickel	9.9	U	9.9	U	9.9	U	9.9	U	9.900	U	P
Potassium	508.3	U	508.3	U	508.3	U	508.3	U	508.300	U	P
Selenium	1.0	U	1.0	U	1.0	U			1.000	U	F
Silver	1.5	B	1.3	U	1.3	U	1.3	U	1.300	U	P
Sodium	42.4	U	42.4	U	42.4	U	42.4	U	42.400	U	P
Thallium	-0.9	B	-1.0	B	-1.6	B	0.5	U	0.500	U	F
Vanadium	1.7	U	1.7	U	1.7	U	1.7	U	1.700	U	P
Zinc	2.2	B	1.6	B	1.6	B	17.3	B	2.690	B	P
Cyanide	1.0	U	1.0	U	-1.1	B	1.0	U	0.500	U	AS

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEANC0

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): SOIL Lab Sample ID: K3324-10

Level (low/med): LOW Date Received: 06/06/96

% Solids: 61.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900			P
7440-36-0	Antimony	47.5			P
7440-38-2	Arsenic	25.3		NS*	F
7440-39-3	Barium	248		N	P
7440-41-7	Beryllium	0.97	B		P
7440-43-9	Cadmium	37.3			P
7440-70-2	Calcium	37900		*	P
7440-47-3	Chromium	44.8			P
7440-48-4	Cobalt	10.5	B		P
7440-50-8	Copper	452			P
7439-89-6	Iron	33300			P
7439-92-1	Lead	1200			F
7439-95-4	Magnesium	2700		*	P
7439-96-5	Manganese	481			P
7439-97-6	Mercury	0.18		N	CV
7440-02-0	Nickel	28.2			P
7440-09-7	Potassium	2200			P
7782-49-2	Selenium	0.72	B		F
7440-22-4	Silver	1.1	B		P
7440-23-5	Sodium	730	B		P
7440-28-0	Thallium	0.23	B		F
7440-62-2	Vanadium	52.2			P
7440-66-6	Zinc	16000			P
	Cyanide	1.2			AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
MISCELLANEOUS WOODY, FIBROUS-PLANT MATERIAL

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EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEANB9

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): SOIL Lab Sample ID: K3324-09

Level (low/med): LOW Date Received: 06/06/96

% Solids: 54.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200			P
7440-36-0	Antimony	14.5	B		P
7440-38-2	Arsenic	18.7		NS*	F
7440-39-3	Barium	172		N	P
7440-41-7	Beryllium	1.3	B		P
7440-43-9	Cadmium	33.4			P
7440-70-2	Calcium	137000		*	P
7440-47-3	Chromium	63.1			P
7440-48-4	Cobalt	10.1	B		P
7440-50-8	Copper	968			P
7439-89-6	Iron	22500			P
7439-92-1	Lead	793			F
7439-95-4	Magnesium	8740		*	P
7439-96-5	Manganese	1830			P
7439-97-6	Mercury	0.48		N	CV
7440-02-0	Nickel	60.9			P
7440-09-7	Potassium	4420			P
7782-49-2	Selenium	1.1	B	W	F
7440-22-4	Silver	9.1			P
7440-23-5	Sodium	856	B		P
7440-28-0	Thallium	0.56	B		F
7440-62-2	Vanadium	64.0			P
7440-66-6	Zinc	9480			P
	Cyanide	0.96			AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
MISCELLANEOUS WOODY, FIBROUS-PLANT MATERIAL

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEANB8

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): SOIL Lab Sample ID: K3324-08

Level (low/med): LOW Date Received: 06/06/96

% Solids: 52.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12800			P
7440-36-0	Antimony	14.9	B		P
7440-38-2	Arsenic	17.9		NS*	F
7440-39-3	Barium	177		N	P
7440-41-7	Beryllium	1.4	B		P
7440-43-9	Cadmium	35.3			P
7440-70-2	Calcium	142000		*	P
7440-47-3	Chromium	77.7			P
7440-48-4	Cobalt	10.5	B		P
7440-50-8	Copper	1660			P
7439-89-6	Iron	24700			P
7439-92-1	Lead	887			F
7439-95-4	Magnesium	9410		*	P
7439-96-5	Manganese	1820			P
7439-97-6	Mercury	0.60		N	CV
7440-02-0	Nickel	56.2			P
7440-09-7	Potassium	4790			P
7782-49-2	Selenium	1.4	B	W	F
7440-22-4	Silver	4.3			P
7440-23-5	Sodium	828	B		P
7440-28-0	Thallium	0.38	B		F
7440-62-2	Vanadium	66.7			P
7440-66-6	Zinc	9320			P
	Cyanide	1.2			AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
MISCELLANEOUS WOODY, FIBROUS-PLANT MATERIAL

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

MEANB7

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): SOIL Lab Sample ID: K3324-07

Level (low/med): LOW Date Received: 06/06/96

% Solids: 52.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21300			P
7440-36-0	Antimony	6.5	B		P
7440-38-2	Arsenic	30.9		NS*	F
7440-39-3	Barium	447		N	P
7440-41-7	Beryllium	0.69	B		P
7440-43-9	Cadmium	19.2			P
7440-70-2	Calcium	48100		*	P
7440-47-3	Chromium	68.1			P
7440-48-4	Cobalt	9.9	B		P
7440-50-8	Copper	336			P
7439-89-6	Iron	59600			P
7439-92-1	Lead	1010			F
7439-95-4	Magnesium	12600		*	P
7439-96-5	Manganese	806			P
7439-97-6	Mercury	2.1		N	CV
7440-02-0	Nickel	40.4			P
7440-09-7	Potassium	10500			P
7782-49-2	Selenium	1.3	B		F
7440-22-4	Silver	0.87	B		P
7440-23-5	Sodium	1050	B		P
7440-28-0	Thallium	0.19	U		F
7440-62-2	Vanadium	68.7			P
7440-66-6	Zinc	4590			P
	Cyanide	2.7			AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
MISCELLANEOUS WOODY, FIBROUS-PLANT MATERIAL

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

MEANB0

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Lab Sample ID: K3324-06

Level (low/med): LOW Date Received: 06/06/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200			P
7440-36-0	Antimony	11.2	U		P
7440-38-2	Arsenic	0.60	U	NW	F
7440-39-3	Barium	40.1	B		P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	29.2			P
7440-70-2	Calcium	320000			P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	56.5			P
7440-50-8	Copper	55.7			P
7439-89-6	Iron	3760			P
7439-92-1	Lead	3.8			F
7439-95-4	Magnesium	21500			P
7439-96-5	Manganese	3130			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	106			P
7440-09-7	Potassium	59900			P
7782-49-2	Selenium	1.0	U	NW	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	40600			P
7440-28-0	Thallium	0.80	B		F
7440-62-2	Vanadium	1.7	U		P
7440-66-6	Zinc	731			P
	Cyanide	7.0			AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEANA9

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Lab Sample ID: K3324-05

Level (low/med): LOW Date Received: 06/06/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17600			P
7440-36-0	Antimony	11.2	U		P
7440-38-2	Arsenic	30.9		NS	F
7440-39-3	Barium	24.3	B		P
7440-41-7	Beryllium	1.7	B		P
7440-43-9	Cadmium	193			P
7440-70-2	Calcium	197000			P
7440-47-3	Chromium	7.2	B		P
7440-48-4	Cobalt	53.7			P
7440-50-8	Copper	100			P
7439-89-6	Iron	1580			P
7439-92-1	Lead	1.5	B		F
7439-95-4	Magnesium	41900			P
7439-96-5	Manganese	6070			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	183			P
7440-09-7	Potassium	204000			P
7782-49-2	Selenium	5.0	U	N	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	11900			P
7440-28-0	Thallium	0.50	U	W	F
7440-62-2	Vanadium	16.2	B		P
7440-66-6	Zinc	31500			P
	Cyanide	27.2			AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

MEANA8

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Lab Sample ID: K3324-04

Level (low/med): LOW Date Received: 06/06/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.4	B		P
7440-36-0	Antimony	11.2	U		P
7440-38-2	Arsenic	0.60	U	N	F
7440-39-3	Barium	1.1	U		P
7440-41-7	Beryllium	0.40	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	86.0	B		P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	1.7	B		P
7439-89-6	Iron	2.0	B		P
7439-92-1	Lead	1.6	B		F
7439-95-4	Magnesium	69.4	U		P
7439-96-5	Manganese	1.0	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	9.9	U		P
7440-09-7	Potassium	508	U		P
7782-49-2	Selenium	1.0	U	N	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	81.9	B		P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	1.7	U		P
7440-66-6	Zinc	17.8	B		P
	Cyanide	0.50	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

MEANA7

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Lab Sample ID: K3324-03

Level (low/med): LOW Date Received: 06/06/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340			P
7440-36-0	Antimony	11.2	U		P
7440-38-2	Arsenic	14.8		NS	F
7440-39-3	Barium	27.7	B		P
7440-41-7	Beryllium	1.8	B		P
7440-43-9	Cadmium	3150			P
7440-70-2	Calcium	371000			P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	91.4			P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	4890			P
7439-92-1	Lead	2.8	B	W	F
7439-95-4	Magnesium	110000			P
7439-96-5	Manganese	11500			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	236			P
7440-09-7	Potassium	56300			P
7782-49-2	Selenium	1.6	B	NW	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	41600			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	5.8	B		P
7440-66-6	Zinc	121000			P
	Cyanide	5.6			AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEANA6

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Lab Sample ID: K3324-02

Level (low/med): LOW Date Received: 06/06/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	47.8	B		P
7440-36-0	Antimony	11.2	U		P
7440-38-2	Arsenic	46.0		N	F
7440-39-3	Barium	478			P
7440-41-7	Beryllium	0.40	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	149000			P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	1.9	B		P
7439-89-6	Iron	23600			P
7439-92-1	Lead	1.6	B		F
7439-95-4	Magnesium	49300			P
7439-96-5	Manganese	4180			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	9.9	U		P
7440-09-7	Potassium	2940	B		P
7782-49-2	Selenium	1.0	U	NW	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	11800			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	9.0	B		P
	Cyanide	2.7	B		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEANA5

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

Matrix (soil/water): WATER Lab Sample ID: K3324-01

Level (low/med): LOW Date Received: 06/06/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	37.6	B		P
7440-36-0	Antimony	16.1	B		P
7440-38-2	Arsenic	27.8		N	F
7440-39-3	Barium	531			P
7440-41-7	Beryllium	0.40	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	146000			P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	3.3	B		P
7439-89-6	Iron	18600			P
7439-92-1	Lead	2.3	B		F
7439-95-4	Magnesium	47900			P
7439-96-5	Manganese	3770			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	9.9	U		P
7440-09-7	Potassium	3640	B		P
7782-49-2	Selenium	1.0	U	N	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	11200			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	10.2	B		P
	Cyanide	0.87	B		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 24739 SAS No.: SDG No.: MEANA5

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MEANA5	K3324-01
MEANA5D	K3324-01
MEANA6	K3324-02
MEANA6S	K3324-02
MEANA7	K3324-03
MEANA8	K3324-04
MEANA9	K3324-05
MEANA9D	K3324-05
MEANA9S	K3324-05
MEANB0	K3324-06
MEANB7	K3324-07
MEANB7D	K3324-07
MEANB7S	K3324-07
MEANB8	K3324-08
MEANB9	K3324-09
MEANC0	K3324-10

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: Eileen M Arnold Name: Eileen M. Arnold

Date: 7/10/96 Title: Project Chemist