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1630355003-St. Clair Co.
Illada Waste Company
ILD 980497978
SF/HRS

Site Team Evaluation Prioritization

CERCLA Report

Illinois Environmental Protection Agency

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

Printed on Recycled Paper

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VOLUME II - INTEGRATED ASSESSMENT ANALYTICAL RESULTS

E TARGET COMPOUND LIST ANALYTICAL RESULTS

SECTION 1

SITE BACKGROUND

1.1 INTRODUCTION

On September 29, 1995 the Illinois Environmental Protection Agency's Site Assessment Unit was tasked by Region V of the United States Environmental Protection Agency (U.S. EPA) to conduct a Site Team Evaluation Prioritization (STEP) of the Ilada Waste Company (ILD# 980497978) in St. Clair County, Illinois. This investigation was conducted under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 40 CFR, 1980 as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Ilada Waste Company was placed on the Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) in August of 1982. This action was the result of a history of permit violations during Ilada Waste Company's tenure at the facility. The site has been in continuous operation since 1939. Refer to the site history section of this report for more detailed information on site operations. Various investigations conducted at the facility have revealed a variety of contaminants in soils and along the surface water pathway. During the STEP inspection a number of soil/sediment samples were collected at the site which revealed the presence of contaminants.

1.2 SITE DESCRIPTION

The Ilada Waste Company site is located on Old Cement Hollow Road east of Dupo, Illinois.

It is situated on the bluffs of the Mississippi River. Site topography is generally uneven sloping from the northern portion of the site to the southern portion. It is located in a sparsely populated area with residential properties to the east and west. Presently, the total area of the property is approximately 100 acres most of which is timbered. The majority of site activities took place on about five acres in an area just north of Cement Hollow Road which runs east to west through the property. There is no available file information to indicate waste disposal activities took place in the area south of Old Cement Hollow Road. The area north of the property drops off to the floodplain of the Mississippi River.

The legal description given for Ilada Waste Company is Section 33, Township 1 North, Range 10 West of the Third Principle Meridian, St. Clair County, Illinois. A four-mile radius map of the area around Ilada and a 15-mile surface water map can be found in Appendix A and Appendix B of this report. To reach the site travel south on Interstate 255 into Dupo. Take the Route 3 exit heading south for approximately 1.5 miles. Take a left heading east at the intersection of Route 3 and Old Cement Hollow Road for roughly .5 miles. The site located along the north side of Old Cement Hollow Road.

1.3 SITE HISTORY

The site is active with operations beginning in 1939 as an oil production facility consisting of several oil wells and an injection well for disposal of brine. From 1977 until 1982 Ilada Waste operated a waste oil recovery, crude oil production, and a secondary fuel blending facility at the site. During Ilada's operations the property was owned by Mr. Victor Nettles.

It is not clear when Mr. Nettles purchased the property, but it was under his ownership prior to 1977.

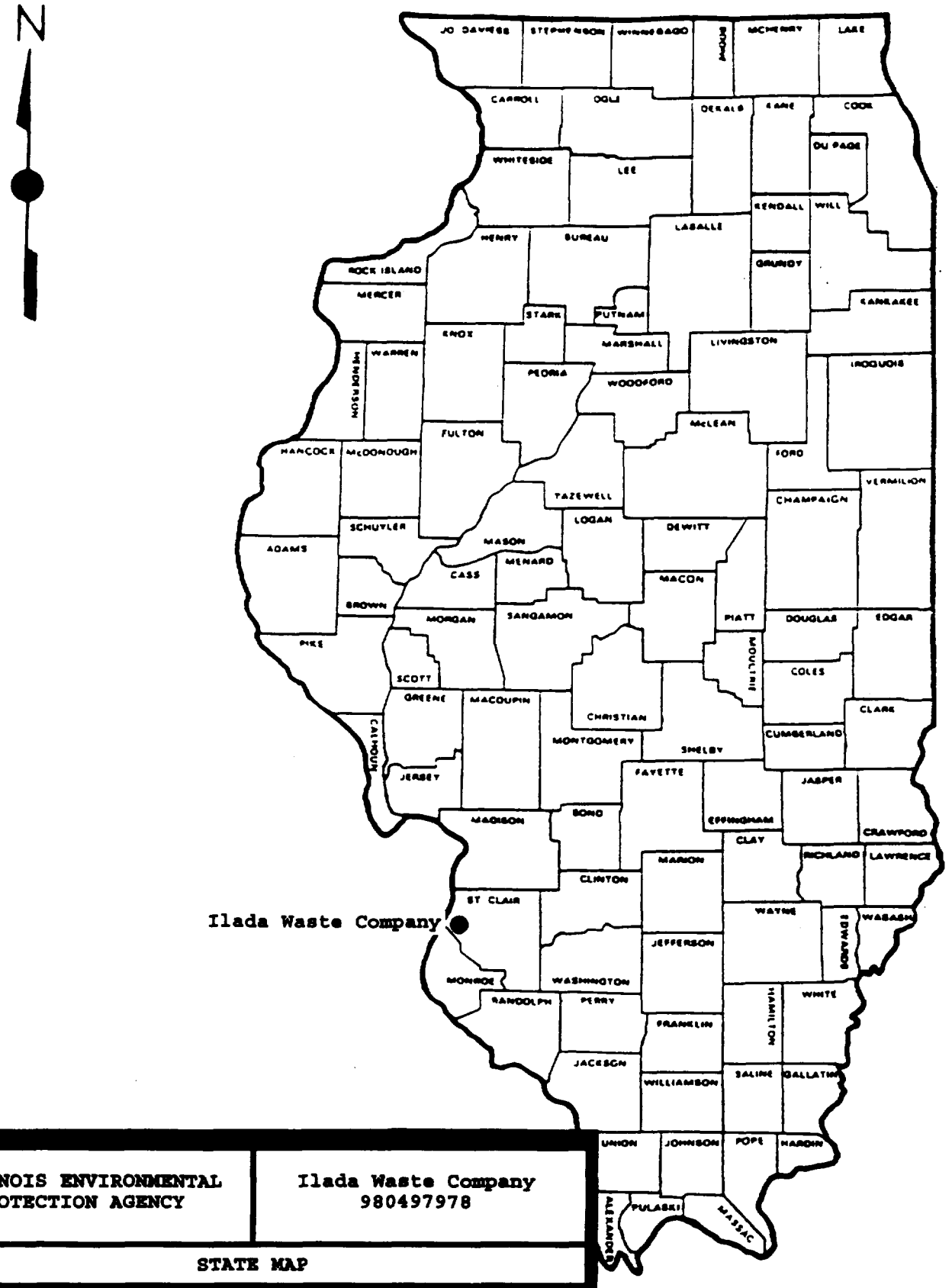
In !982, Mr. Charles Larson bought the property from Mr. Nettles and at which time waste oil processing operations were discontinued and the facility returned solely to oil production under the name of Larson Industries. Larson Industries was fined by the U.S. Coast Guard in 1985 for a release of crude oil to Hill Creek due to the rupture of an underground pipeline. Other than this one time event, Larson Industries activities have been found to be in compliance with existing regulations.

The activities which brought this site to the attention of the IEPA were those employed by Ilada Waste Company during their occupancy of the facility from 1979 through 1982. Ilada's operating history indicates a pattern of unauthorized and questionable disposal methods. Waste oils were obtained from Shell and/or Amoco refineries in Woodriver, Illinois for recycling. Processed waste oils and crude oil were blended and sold as fuel. Some waste oils were left unprocessed and sold as road oil for dust control. The General Electric Company of St. Louis, Missouri reportedly shipped between 5,000 and 6,000 gallons of PCB containing transformer oils per week to be processed at the facility for approximately three years. This would lead to the hypothesis that the elevated levels of PCB contamination in on site soils and sediments is a direct result of these activities. Elevated levels of PCBs have in fact been documented throughout the history of investigations at this site including the 1995 CERCLA sampling event.

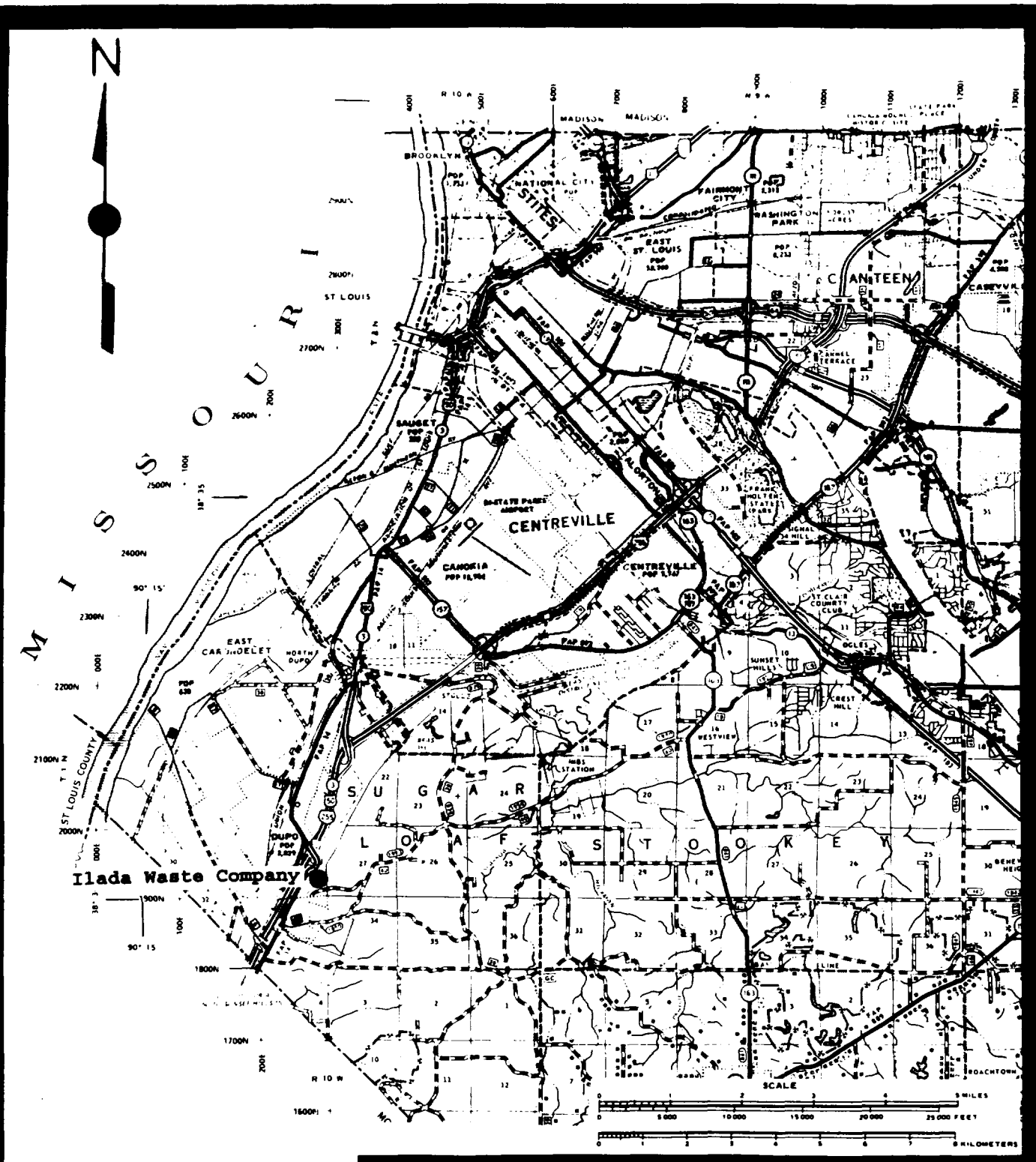
Existing file information suggests that the injection well on the site was used for more than the disposal of brine by Ilada Waste. A former Ilada employee indicated to IEPA officials that waste oils were directly injected for disposal. The employee also stated that acids were also injected to clear blockages in the well. The depth of the injection well has been estimated at more than 3,000 feet. Given the fact that Mr. Larson has been ordered by the IEPA to repair the casing it is likely that the entire injection well is in disrepair. The brine is currently being disposed of in an injection well located on a different property.

1.4 APPLICABILITY OF OTHER STATUTES

This section addresses any other EPA programs that may be associated with Ilada Waste Company. Current site operations are governed by the Petroleum Exclusion provisions of CERCLA. Given the nature of operations it is unlikely that the site was or is subject to the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), the Atomic Energy Act (AEA), or the Uranium Mill Tailings Radiation Control Act (UMTRCA).



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	Ilada Waste Company 980497978
STATE MAP	
Site Location: ●	



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	Ilada Waste Company 980497978
COUNTY MAP	
Site Location: ●	

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	Ilada Waste Company 980497978
LOCAL AREA MAP	
Site Location: ———	

SECTION 2

SITE TEAM EVALUATION PRIORITIZATION ACTIVITIES

2.1 RECONNAISSANCE INSPECTION

A site reconnaissance of the Ilada Waste Company was conducted on October 31, 1995. Access to the property was obtained via a telephone conversation with Mr. Charles Larson. Mr. Larson was present during the reconnaissance and portions of the CERCLA sampling event. Mr. Larson chose not to split samples with the IEPA. There is little physical evidence left of activities that took place during Ilada Waste's operations at the site. The surface impoundments have been filled and most of the above ground storage tanks have been taken down or demolished. Some of the oil wells are still in operation, but the injection well was not being used at the time of the STEP inspection as Mr. Larson had been directed by the IEPA to repair the casing.

The site is timbered except in the areas where current operations take place. The property slopes towards Cement Hollow Road. An unnamed intermittent stream runs through the site and leads to Hill Creek, a perennial stream, which drains the property towards the southwest. The area of the property where operations currently take place occupies approximately five acres. There are two residences within 200 feet of the site to the east.

2.2 SOIL/SEDIMENT SAMPLING

IEPA personnel collected 13 soil/sediment samples during the November 28, 1995, STEP inspection to determine if Target Compound List contaminants were present in on site soils

and/or along the surface water pathway. The samples were collected with either a stainless steel trowel or auger. Refer to the map at the end of the narrative section for sample locations. The soils were transferred from the sampling device directly into sample containers supplied by the IEPA Bottling Center. The sample containers were packaged and sealed in accordance with previously documented Site Assessment Program methods and procedures. The samples were analyzed for the Target Compound List by CLP laboratories assigned by the U.S. EPA.

2.3 KEY SAMPLES

Soil samples were collected on the site in areas where Ilada Waste Company conducted the bulk of their operations. Laboratory analysis of the soil samples revealed either polynuclear aromatic (PNA) or polychlorinated biphenyl (PCB) contamination at levels which meet the CERCLA criteria for an observed release. Removal action levels have not been exceeded in any of the soil samples.

A series of sediment samples were collected from the unnamed intermittent stream and Hill Creek. Run off from the site enters both of these streams. Analysis of these samples revealed PCB and lead at levels that meet CERCLA criteria for an observed release. The concentrations in the sediment samples were compared to the Ontario Aquatic Sediment Quality Guidelines. These sediment quality guidelines are nonregulatory ecological benchmark values that serve as indicators of potential aquatic impacts. The severe effect levels (SELs) represent heavily polluted conditions that are expected to affect the health of

benthic organisms.

A total of seven sediment samples were collected during the sampling event including the background and duplicate. At two of the sample locations the PCBs revealed in the laboratory analysis fell between the lowest effect levels (LELs) and the SELs. At two of the other sample locations the SEL for PCBs had been exceeded.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	Ilada Waste Company 980497978
SAMPLE LOCATION MAP	
Soil Sample: ●	Scale 1:2,400

SAMPLE DESCRIPTIONS			
Sample	Depth	Appearance	Location
X101	1" – 4"	Dark brown loam.	Background soil sample taken 54' south of Cement Hollow Road and 43' west of garage located on site.
X102 X103	10" – 14"	Light brown clayey loam.	81' north of Cement Hollow Road and 157' west of the large storage tank viewable from Cement Hollow Road.
X104	4'	Gray clay.	Collected 27' east of access road leading to Well #1 and 93' north of unnammed intermittent stream running through the site from north to south.
X105	2" – 6"	Dark brown clay.	Taken 45' west of access road leading to Well #1 and 82' north of bridge across Hill Creek.
X106	1" – 5"	Brown sandy loam.	Sample location is 119' west of bridge across Hill Creek and 75' south of the access road running parallel to Cement Hollow Road.
X201	0" – 2"	Brown to black silty clay.	Background sediment sample for on–site intermittent stream.
X202	0" – 3"	Light brown and gray clays.	10' upstream (NE) of the point at which Hill Creek washes over the access road leading to well #1.
X203	0" – 2"	Light brown silty material.	Background sample for Hill Creek collected immediately off–site along the eastern property boundary.
X204	0" – 2"	Brown silts and clays.	Taken 325' upstream of duplicate samples X205 & X206 along Hill Creek.
X205 X206	0" – 6"	Light gray to black silt with gravel.	Taken on–site at the confluence of the unnamed intermittent stream and Hill Creek.
X207	0" – 6"	Gray sandy clay with gravel.	Taken 1' upstream of concrete spillway immediately east of the site on Hill Creek.

SITE NAME: Ilada Waste Company

ILD# 980497978

SOIL SAMPLES

SAMPLING POINT	X101	X102	X103	X104	X105	X106
PARAMETER	Background Soil	Soil	Soil (Duplicate)	Soil	Soil	Soil
VOLATILES						
Acetone	14.0 U	--	--	8.0 J	--	--
Carbon Disulfide	14.0 U	--	--	4.0 J	2.0 J	--
TICs						
Hexane	23.0 NJ	--	8.0 NJ	9.0 NJ	22.0 NJ	9.0 NJ
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILES						
Phenol	460.0 U	--	--	--	260.0 J	--
Naphthalene	460.0 U	27.0 J	24.0 J	--	--	30.0 J
2-Methylnaphthalene	460.0 U	24.0 J	22.0 J	--	--	32.0 J
Acenaphthylene	460.0 U	37.0 J	33.0 J	--	--	340.0 J
Dibenzofuran	460.0 U	20.0 J	--	--	--	--
Fluorene	460.0 U	--	--	--	--	29.0 J
Phenanthrene	460.0 U	110.0 J	110.0 J	--	--	--
Anthracene	460.0 U	23.0 J	20.0 J	--	--	--
Di-n-Butylphthalate	460.0 U	--	--	74.0	--	--
Fluoranthene	39.0 J	170.0 J	130.0 J	--	--	220.0 J
Pyrene	39.0 J	260.0 J	210.0 J	--	--	74.0 J
Benzo(a)Anthracene	460.0 U	110.0 J	91.0 J	--	--	400.0
Chrysene	460.0 U	230.0 J	180.0 J	--	--	1200.0
Di-n-Octyl Phthalate	96.0 J	58.0 J	130.0 J	90.0 J	32.0 J	64.0 J
Benzo(b)Fluoranthene	460.0 U	110.0 J	120.0 J	--	--	600.0
Benzo(k)Fluoranthene	460.0 U	140.0 J	120.0 J	--	--	900.0
Benzo(a)Pyrene	460.0 U	170.0 J	120.0 J	--	--	1300.0
Indeno(1,2,3-cd)Pyrene	460.0 U	180.0 J	150.0 J	--	--	980.0
Dibenz(a,h)Anthracene	460.0 U	--	--	--	--	330.0 J
Benzo(g,h,i)Perylene	460.0 U	330.0 J	250.0 J	--	--	1700.0
TICs						
2-Pentanone, 4-hydroxy-4-met	20000.0 NJ	47000.0 NJ	10000.0 NJ	47000.0 NJ	17000.0 NJ	16000.0 NJ
2,4-Pentanedione	--	--	--	--	--	160.0 NJ
Phenanthrene, 3-methyl-	--	--	--	--	--	150.0 NJ
1,1'-Biphenyl, 2,2',3,4,4',6	--	--	250.0 NJ	--	--	--
1,1'-Biphenyl, 2,3',4,4',5,5	--	--	--	--	--	230.0 NJ
Pyrene, 4-methyl-	--	--	--	--	--	190.0 NJ
Oxirane, hexadecyl-	200.0 NJ	--	--	--	--	--
Oxirane, tetradecyl-	210.0 NJ	--	--	--	--	--
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PESTICIDES						
Aroclor-1260	84.0	1300.0 E	1100.0 E	44.0	760.0	8500.0 E
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
INORGANICS						
Aluminum	6990.0	8700.0	7930.0	8810.0	8830.0	7500.0
Arsenic	2.4 B	5.7	5.2	6.3	5.1	4.5
Barium	164.0	139.0	105.0	103.0	81.7	96.9
Beryllium	0.4 B	0.5 B	0.4 B	0.5 B	0.5 B	0.4 B
Calcium	5370.0	23100.0	35800.0	2680.0	1510.0	3180.0
Chromium	11.8	16.4	14.3	14.0	13.3	15.1
Cobalt	6.6 B	8.1 B	6.6 B	7.6 B	8.5 B	5.9 B
Copper	12.9	12.4	11.5	8.9	9.9	10.5
Iron	10600.0	14700.0	13100.0	12200.0	13400.0	11500.0
Lead	44.6	92.4	78.1	12.7	13.0	50.6
Magnesium	1520.0	3390.0	4530.0	2250.0	1810.0	1670.0
Manganese	1100.0	642.0	425.0	207.0	511.0	445.0
Nickel	12.0	19.4	15.2	15.8	11.9	10.9
Potassium	366.0 B	542.0 B	480.0 B	464.0 B	450.0 B	303.0 B
Sodium	34.5 B	124.0 B	118.0 B	313.0 B	28.7 B	33.7 B
Thallium	0.4 U	0.4 B	--	--	--	--
Vanadium	19.9	26.4	24.4	27.5	25.8	23.3
Zinc	96.0	70.1	70.8	43.4	70.0	76.2
Cyanide	0.2 B	0.1 B	--	--	0.1 B	0.1 B
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

SITE NAME: Ilada Waste Company

ILD# 980497978

KEY SOIL SAMPLES

SAMPLING POINT PARAMETER	X101 Background Soil	X102 Soil	X103 Soil (Duplicate)	X104 Soil	X105 Soil	X106 Soil
SEMIVOLATILES						
Chrysene	460.0 U	--	--	--	--	1200.0
Benzo(b)Fluoranthene	460.0 U	--	--	--	--	600.0
Benzo(k)Fluoranthene	460.0 U	--	--	--	--	900.0
Benzo(a)Pyrene	460.0 U	--	--	--	--	1300.0
Indeno(1,2,3-cd)Pyrene	460.0 U	--	--	--	--	980.0
Benzo(g,h,i)Perylene	460.0 U	--	--	--	--	1700.0
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PESTICIDES						
Aroclor-1260	84.0	1300.0 E	1100.0 E	--	760.0	8500.0 E
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
INORGANICS						
Arsenic	2.4 B	--	--	6.3	--	--
Calcium	5370.0	23100.0	35800.0	--	--	--
Magnesium	1520.0	--	4530.0	--	--	--
Sodium	34.5 B	124.0 B	118.0 B	313.0 B	--	--
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

SITE NAME: Ilada Waste Company

ILD# 980497978

SEDIMENT SAMPLES

SAMPLING POINT	X201	X202	X203	X204	X205	X206	X207
PARAMETER	Background Sediment	Sediment	Sediment	Sediment	Sediment	Sediment (Duplicate)	Sediment
VOLATILES							
Acetone	23.0	15.0	12.0 J	11.0 J	9.0 J	6.0 J	4.0 J
1,2-Dichloroethene(total)	15.0 U	10.0 J	--	--	--	--	--
TICs							
Hexane	18.0 NJ	13.0 NJ	17.0 NJ	15.0 NJ	8.0 NJ	--	10.0 NJ
Benzeneethanamine, N-[(penta	--	--	--	--	11.0 NJ	--	--
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILES							
Acenaphthylene	510.0 U	--	--	--	35.0 J	39.0 J	24.0 J
Diethylphthalate	510.0 U	--	--	62.0 J	--	--	--
Phenanthrene	510.0 U	--	--	--	120.0 J	--	52.0 J
Anthracene	510.0 U	--	--	--	30.0 J	30.0 J	--
Fluoranthene	510.0 U	--	--	--	160.0 J	53.0 J	46.0 J
Pyrene	510.0 U	--	--	32.0 J	270.0 J	280.0 J	140.0 J
Benzo(a)Anthracene	510.0 U	--	--	--	100.0 J	55.0 J	40.0 J
Chrysene	510.0 U	--	--	27.0 J	180.0 J	130.0 J	72.0 J
Di-n-Octyl Phthalate	87.0 J	220.0 J	96.0 J	--	--	--	--
Benzo(a)Pyrene	510.0 U	--	--	--	180.0 J	--	--
Indeno(1,2,3-cd)Pyrene	510.0 U	--	--	25.0 J	--	--	--
Benzo(g,h,i)Perylene	510.0 U	--	--	41.0 J	170.0 J	210.0 J	130.0 J
TICs							
2-Petanone, 4-hydroxy-4-met	15000.0 NJ	14000.0 NJ	37000.0 NJ	--	30000.0 NJ	15000.0 NJ	12000.0 NJ
3,7,11,15-Tetramethyl-2-haxa	--	99.0 NJ	--	--	--	--	--
Ethanol, 2-(4-phenoxyphenoxy	--	120.0 NJ	--	--	--	--	--
2,4-Pentanedione	--	--	--	830.0 NJ	--	--	--
Butanoic acid, anhydride	--	--	--	190.0 NJ	--	--	--
Butanoic acid, 2-butoxy-1-me	--	--	--	--	--	--	160.0 NJ
Tetradecanoic acid	--	--	250.0 NJ	460.0 NJ	--	--	--
Oxacycloheptadecan-2-one	--	--	620.0 NJ	--	--	--	--
Tridecanoic acid	--	--	1200.0 NJ	--	--	--	--
N,N-Dimethyloctylamine	--	--	470.0 NJ	--	--	--	--
Phytol	200.0 NJ	--	260.0 NJ	--	--	--	--
2,6,10-Dodocatrien-1-o1, 3,7	--	--	670.0 NJ	--	--	--	--
Oxirane, hexadecyl-	--	--	--	280.0 NJ	--	--	--
Butyric acid, ester with m-h	--	--	--	--	140.0 NJ	--	--
4-Nonylphenol	--	--	--	--	190.0 NJ	--	--
Ethanol, 2,2'-[1,2-ethanediy	--	--	--	--	--	220.0 NJ	--
Butylated Hydroxytoluene	--	--	--	--	--	180.0 NJ	--
Isophytol	--	--	--	--	190.0 NJ	--	--
Octadecanal	--	300.0 NJ	740.0 NJ	--	--	--	--
Phenol, dodecyl-	--	--	--	--	--	--	780.0 NJ
4-Nonylphenol	--	--	--	--	--	--	1200.0 NJ
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PESTICIDES							
Aldrin	23.0 U	0.2 PJ	--	--	--	--	--
Heptachlor epoxide	23.0 U	--	--	--	7.2 DPJ	6.9 DJ	
Aroclor-1260	440.0 U	--	270.0	88.0	3300.0 E	2900.0 D	2200.0 D
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
INORGANICS							
Aluminum	11900.0	8140.0	8070.0	6400.0	4850.0	5840.0	6710.0
Arsenic	9.0	5.6	6.5	5.0	5.6	6.7	7.5
Barium	97.9	98.9	110.0	106.0	106.0	146.0	128.0
Beryllium	0.5 B	0.5 B	0.5 B	0.5 B	0.3 B	0.4 B	0.4 B
Cadmium	1.1 U	--	1.5 B	--	--	--	--
Calcium	40300.0	4940.0	24100.0	4780.0	129000.0	26000.0	37900.0
Chromium	20.4	12.6	12.9	9.4	10.6	11.6	10.1
Cobalt	12.2 B	6.5 B	9.2 B	7.7 B	10.1 B	12.9 B	8.3 B
Copper	10.4	9.6	9.8	10.4	9.1	11.9	11.3
Iron	22800.0	13300.0	12500.0	11300.0	11900.0	12600.0	12200.0
Lead	11.6	14.4	22.1	14.0	44.9	70.9	20.7
Magnesium	5030.0	1930.0	2270.0	1750.0	3590.0	2480.0	2610.0
Manganese	375.0	324.0	740.0	244.0	639.0	441.0	606.0
Nickel	26.9	10.6 B	16.4	13.7	13.4	15.0	12.9
Potassium	1760.0	419.0 B	419.0 B	--	--	--	--
Selenium	0.5 B	--	--	--	0.6 B	--	--
Sodium	156.0 B	132.0 B	122.0 B	83.2 B	150.0 B	101.0 B	92.5 B
Thallium	0.4 U	--	--	--	--	0.5 B	--
Vanadium	27.6	23.6	22.6	18.9	16.0	20.1	19.8
Zinc	76.4	44.2	65.0	45.1	48.6	50.2	49.8
Cyanide	3.5	0.7	--	--	0.1 B	0.1 B	--
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

SITE NAME: Ilada Waste Company

ILD# 980497978

KEY SEDIMENT SAMPLES

SAMPLING POINT	X201	X202	X203	X204	X205	X206	X207
PARAMETER	Background Sediment	Sediment	Sediment	Sediment	Sediment	Sediment (Duplicate)	Sediment
PESTICIDES							
Aroclor-1260	440.0 U ug/kg	-- ug/kg	-- ug/kg	-- ug/kg	3300.0 E ug/kg	2900.0 D ug/kg	2200.0 D ug/kg
INORGANICS							
Cadmium	1.1 U	--	1.5 B	--	--	--	--
Calcium	40300.0	--	--	--	129000.0	--	--
Lead	11.6	--	--	--	44.9	70.9	--
Thallium	0.4 U mg/kg	-- mg/kg	-- mg/kg	-- mg/kg	-- mg/kg	0.5 B mg/kg	-- mg/kg

DATA QUALIFIERS

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

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

SECTION 3

IDENTIFICATION OF SOURCES

3.1 CONTAMINATED SOILS

An area of contaminated soils totaling approximately 42,642 square feet was delineated at the site. This area was determined using aerial photography and a Planix 5 Planimeter to measure between sample points from the 1995 CERCLA sampling event that revealed contaminants at concentrations above background.

During the 1995 STEP inspection a number of soil samples were collected at various points throughout the property. The sampling was concentrated in areas where historically activities have taken place at the property i.e.; areas where above ground storage tanks and drums were located. Analysis of these soil samples revealed PNA, PCB, and metals contamination that meet the CERCLA criteria for an observed release.

3.2 ABOVE GROUND STORAGE TANKS

File information indicates that a variety of above ground storage tanks were utilized at the site. Some were used to contain the oil pumped by the wells after the brine had been separated, and others were used to contain waste oils before recycling. There are site sketches from past investigation and historical aerial photography that indicates the locations of most of these tanks. Mr. Larson, the current owner and operator, has dismantled nearly all of these tanks.

Illinois EPA Bureau of Land file information indicates that the above ground tanks utilized by Ilada for their operations had a combined total storage capacity of 200,000 gallons. Analytical results of duplicate soil samples X102 and X103 collected from an area where tanks were reportedly located indicate the presence of PCBs at concentrations well above background. Given that the tanks were used to contain waste oils, this would lead to the conclusion that the tanks led to the on site soil contamination. The above ground storage tanks were not used in the scoring of the site due to the fact that they were removed prior to the STEP.

3.3 SURFACE IMPOUNDMENTS

Operations at the site prior to Larson Industries utilized two on site surface impoundments where brine was separated from crude oil. These lagoons are known to have contained crude oil, but may have been used by Ilada to contain waste oils. Both of the surface impoundments were filled by Mr. Larson. Deep soil sample X104, collected at a depth of four feet in the filled area of one of the impoundments, revealed low level PCB contamination. Groundwater was encountered at the bottom of the bore hole.

The area of the lagoons has been roughly estimated at 1/10 of an acre each during past investigations. There are no records available that give the exact dimensions of the lagoons. They were not used in the scoring of the site due to the fact that the contamination levels do not meet HRS criteria for an observed release. In any ensuing investigation, these lagoons merit a more comprehensive delineation of both size and hazardous constituents.

SECTION 4

MIGRATION PATHWAYS

4.1 GROUNDWATER PATHWAY

The site is situated atop a bluff composed of limestone bedrock with elevations 100 to 200 feet above the Mississippi River floodplain. These bluffs are reportedly covered by 30 to 70 feet of clayey loess. This does not appear to hold true throughout the entire area as exposed bedrock was observed during the site recon. The Middle and Upper Mississippi formation underlying the site exhibit karst characteristics. This formation is primarily composed of limestone with layers of shale and sandstone interbedded.

This bluff overlooks the Mississippi River floodplain which consists of approximately 100 to 200 feet of sand and gravel alluvial deposits. These alluvial deposits encompass a large area in parts of Illinois and Missouri around St. Louis and are referred to as the "American Bottoms". These deposits come within a 1/4 mile of the site before ending against the limestone bluffs. The depth to the alluvial aquifer, the one of concern, from the surface is roughly 50 feet. The alluvial aquifer is the Lower Mississippi and appears to be interconnected to the Upper and Middle portions of the system due to similar water level elevations and the absence of hydraulic barriers.

Municipalities in the area receive drinking water from a surface water intake on the Mississippi River. There are no public wells within the four-mile target distance limit. There are numerous private wells within the four-mile target distance limit, but none within

close proximity of the site. There are no monitoring wells on site either.

Groundwater samples were not collected during the 1995 CERCLA sampling event. All of the residences neighboring the site receive drinking water from the intake located on the Mississippi River. The probability of groundwater being impacted from past disposal activities is high. This pathway should be further evaluated in any ensuing investigations through comprehensive groundwater sampling utilizing monitoring wells in and around the site.

4.2 SURFACE WATER PATHWAY

Run off from the site enters both the unnamed intermittent stream which runs through the site and Hill Creek which runs along the southern portion of the site. Hill Creek drains into Hill Lake Creek which leads to Palmer Creek. Palmer Creek feeds into the Mississippi River approximately 5.5 miles southwest of the probable point of entry (PPE). According to U.S. Department of the Interior "National Wetlands Inventory" maps there are roughly 25 miles of wetland frontage along the surface water pathway. A surface water intake which provides drinking water to the area is located north of the confluence of Palmer Creek and the Mississippi River. There are no surface water intakes along the 15 mile target distance limit.

The site is located outside of any floodplain as designated by the Federal Management Agency Flood Insurance Map for St. Clair County, Illinois. A review conducted by the Illinois Department of Natural Resources revealed no sensitive environments along the

15 mile surface water target distance limit. The Mississippi River is a major fishery, an important flyway for migratory waterfowl, and receives heavy recreational use.

Sediment samples collected during the sampling event did reveal PCB and lead contamination at levels that meet the CERCLA criteria for an observed release. These samples were collected from areas designated as wetlands.

4.3 AIR PATHWAY

Air monitoring was conducted with an HNU during the STEP inspection. At several sample locations the HNU gave readings four to five meter units above background in holes developed for soil sample collection. The potential for a release to the air does exist based upon windborne particulates leaving the property. There is no available file information that would indicate that incineration was utilized as a disposal method at the facility.

There are no schools or day care facilities within 200 feet of the site. The nearest residences

Table 4-1
Estimated Air Target Populations

On a source	0
>0 to 1/4 mile	39
>1/4 to ½ mile	171
>½ to 1 mile	3,261
>1 to 2 miles	3,261
>2 to 3 miles	1,650
>3 to 4 miles	6,113

are located 150 feet east of the site. There are two workers at the facility, Mr. Larson and his employee. According to U.S. Department of the Interior "National Wetlands Inventory" maps, there is less than one acre of wetlands on site with another 50 acres within a four-mile

radius.

4.4 SOIL EXPOSURE PATHWAY

Analyses of soil samples collected during the STEP indicate the presence of PNAs, PCBs, and metals in soils at the facility. Given the available file information it is likely that the PCB contamination is a direct result of oil recycling activities that took place during Ilada Waste Company's operations. Neighboring properties were not sampled.

There are no schools or day care facilities within 200 feet of the site. The nearest residence

Table 4-2
Estimated Soil Target Populations

On a source	0
>0 to 1/4 mile	39
>1/4 to ½ mile	171
>½ to 1 mile	326

is located roughly 150 feet east of the site. There are two workers on site. A review conducted by the Illinois Department of Natural Resources did not reveal any sensitive environments within the 4-mile target distance limit. According to U.S. Department of the Interior "National Wetlands Inventory" maps, there is less than one acre of wetlands on site. Access to the site is unrestricted. During the recon and sampling event area residents were observed using the site for recreational purposes.

SECTION 5

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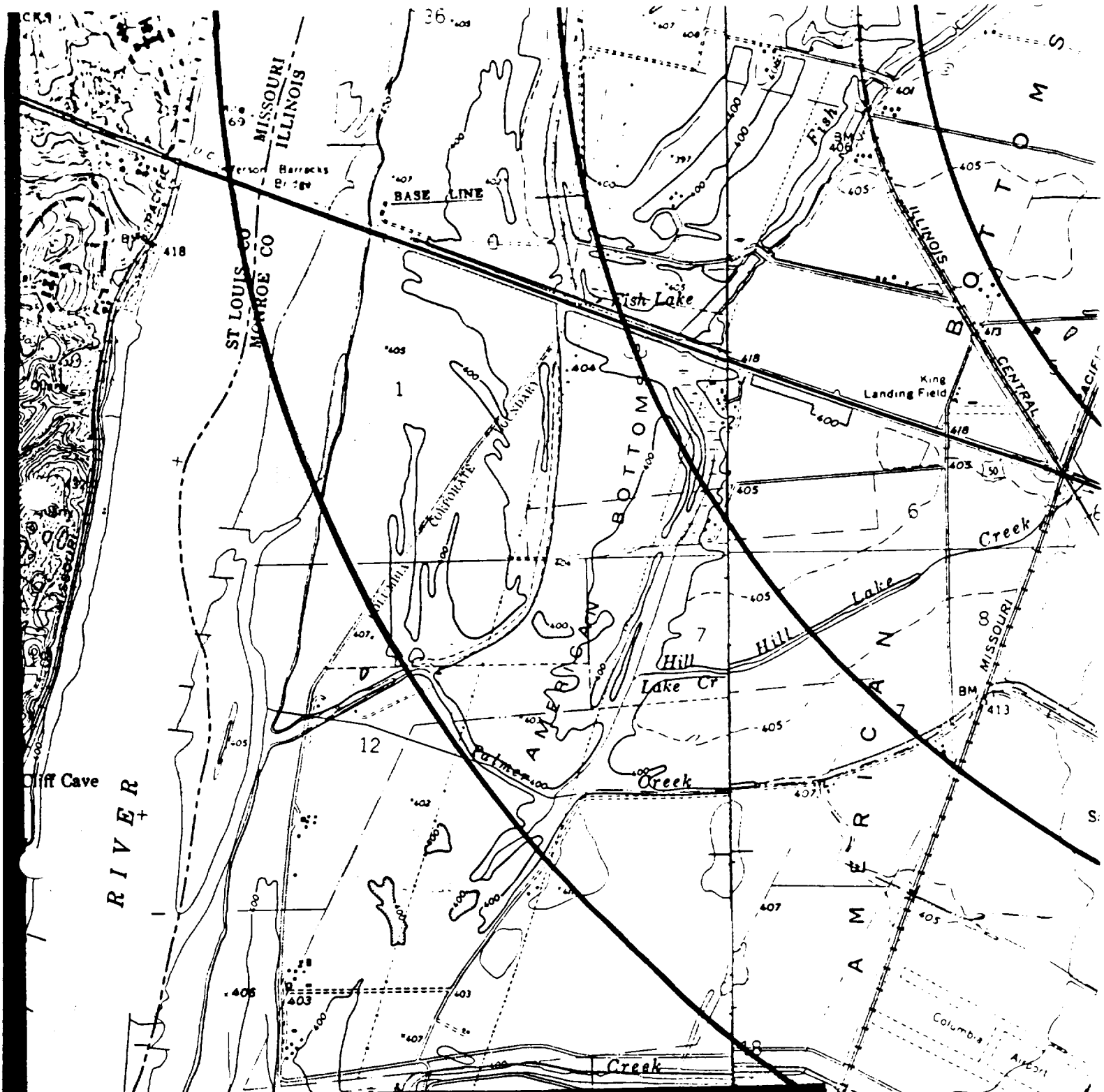
United States Geological Survey, 1988, Cahokia, Illinois, 7.5 Minute Topographic Map.

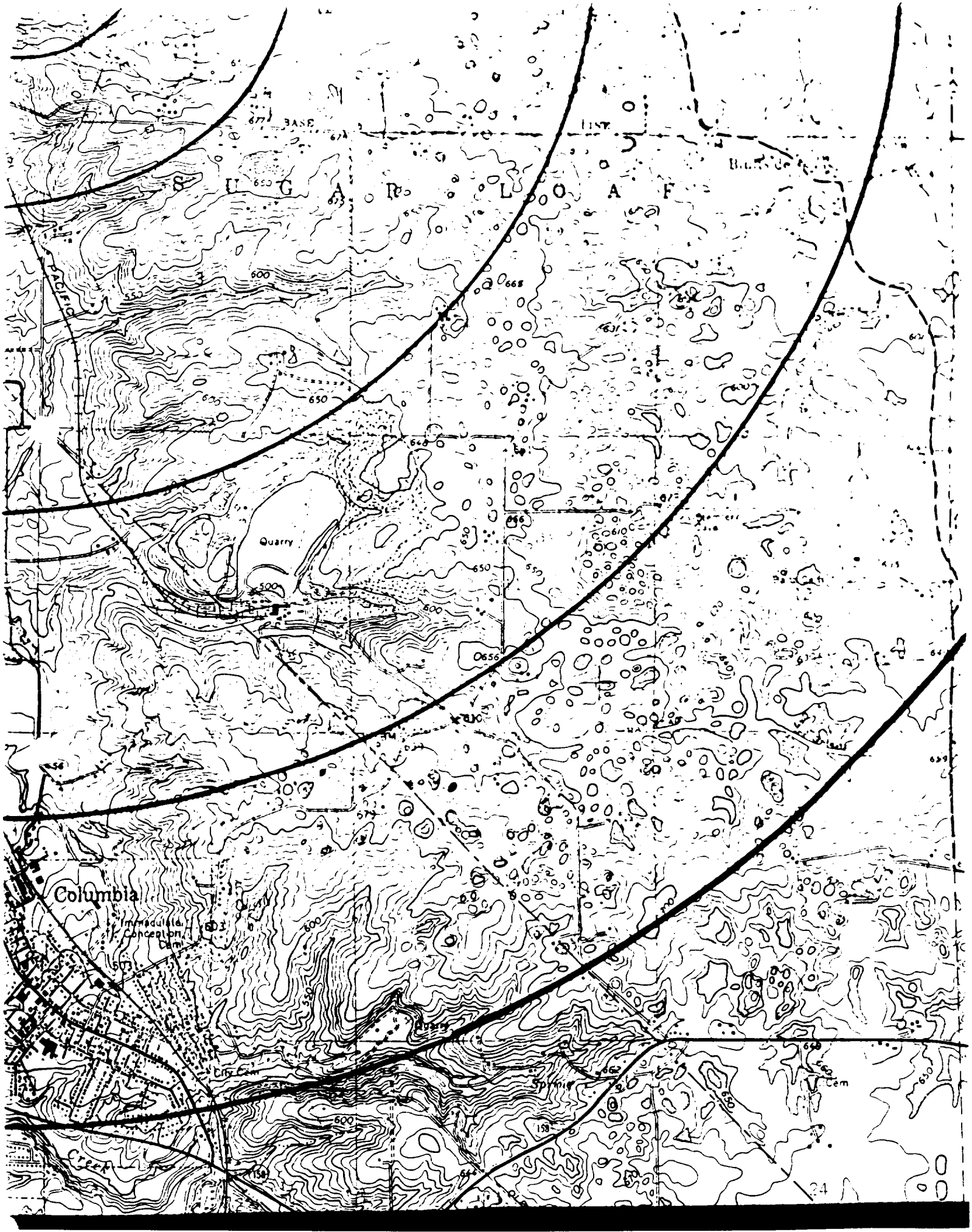
United States Geological Survey, 1982, Dupo, Illinois, 7.5 Minute Topographic Map.

APPENDIX A
FOUR-MILE RADIUS MAP

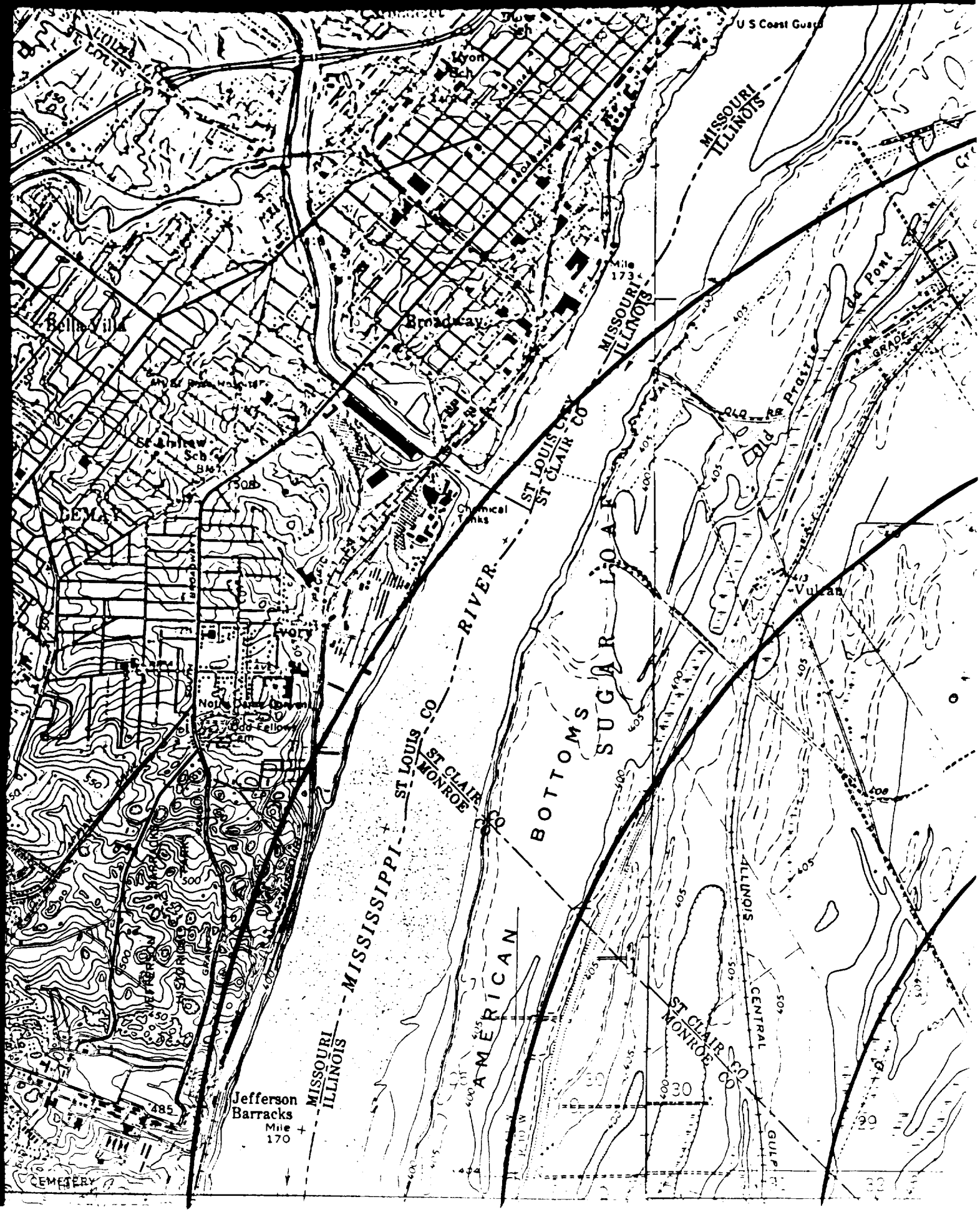


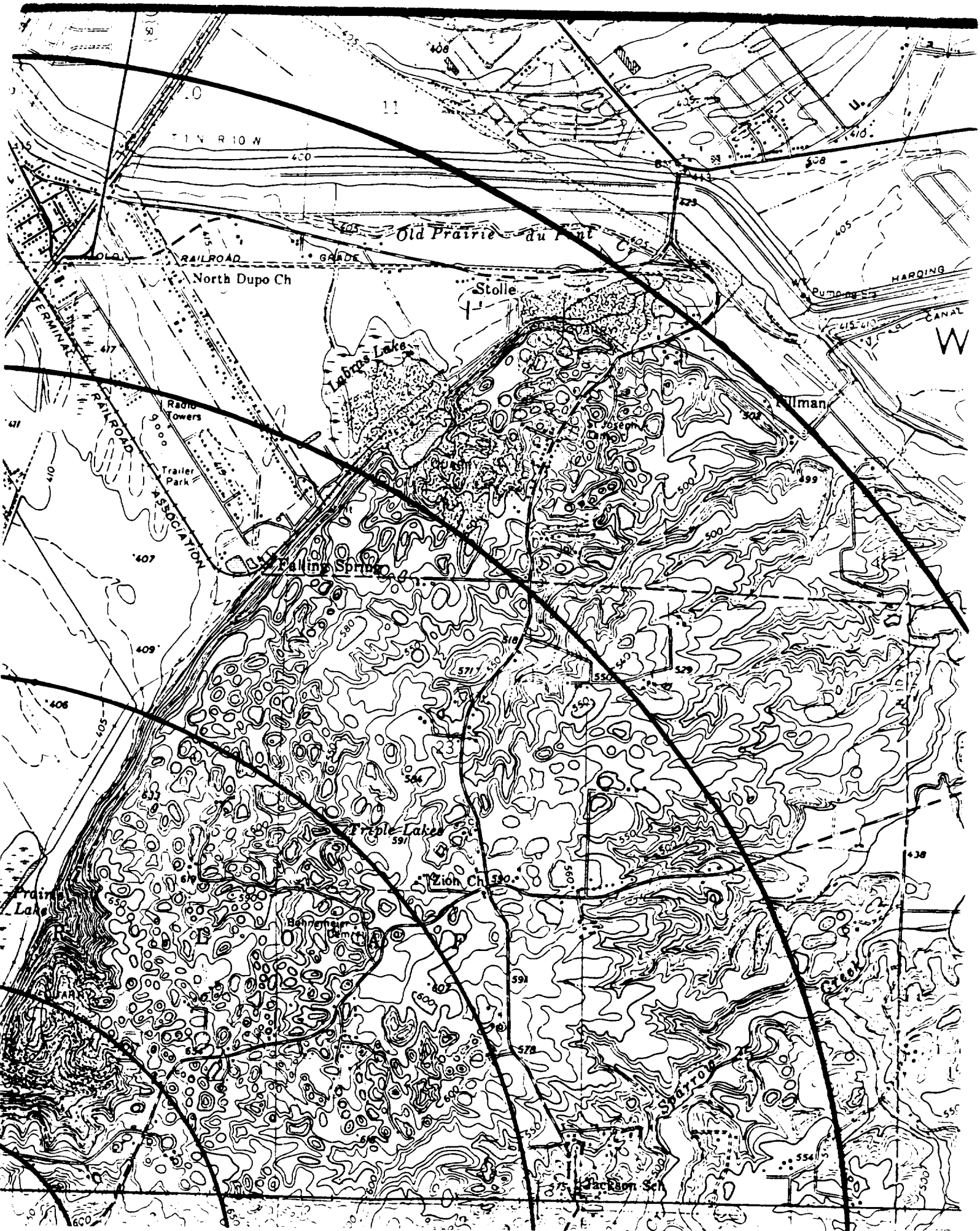
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	Ilada Waste Company 980497978

USGS TOPOGRAPHIC MAPS		LEGEND
NAME: Webster Groves, IL LOCATION: 224D PHOTOREVISED: 1980	NAME: Cahokia, IL LOCATION: 225C PHOTOREVISED: 1980	SITE LOCATION
NAME: Oakville, IL LOCATION: 240A PHOTOREVISED: 1972	NAME: Columbia, IL LOCATION: 247B PHOTOREVISED: 1980	ILLINOIS



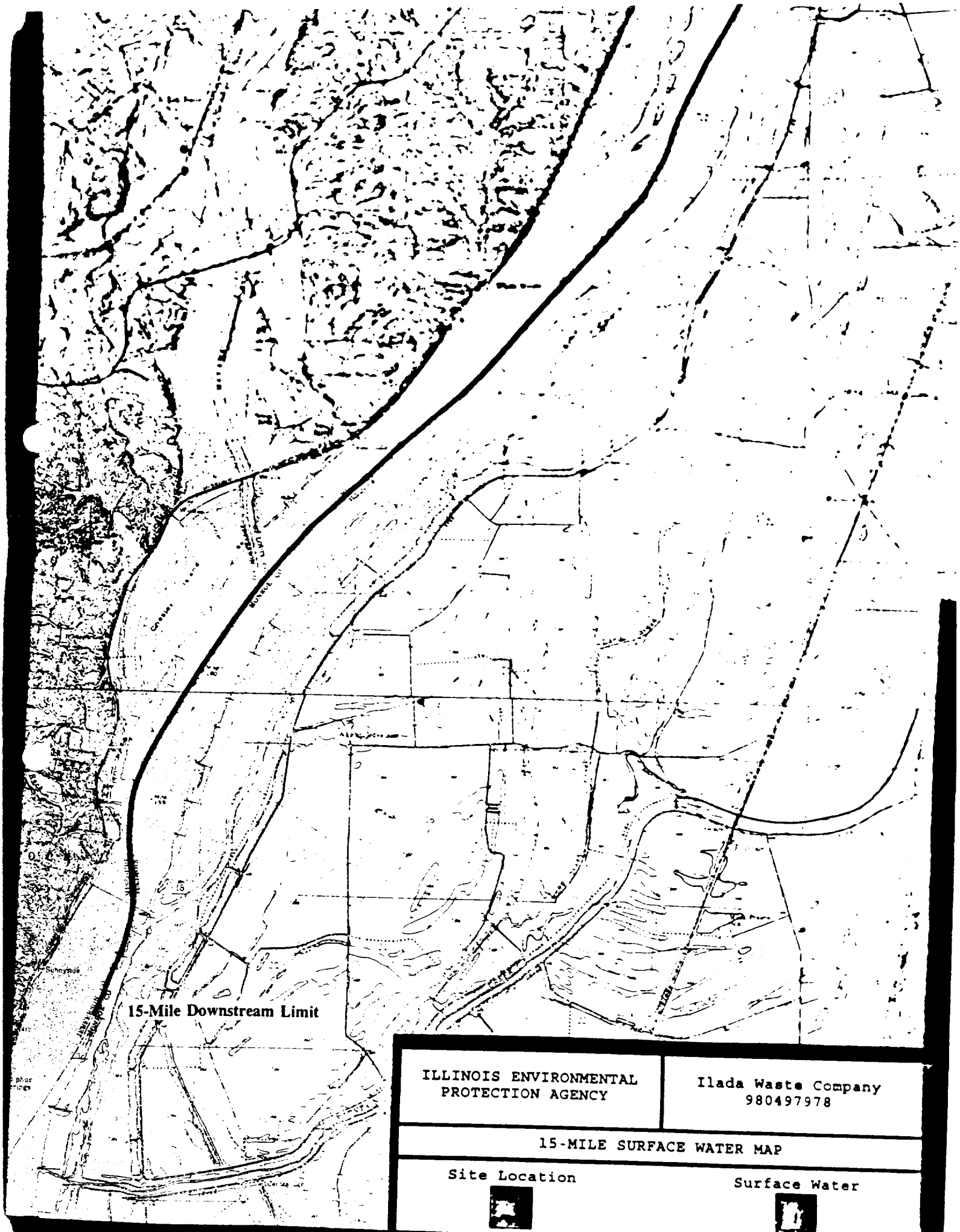
BASE
LINE
S U G A R L O A F
PACIFIC
Quarry
Columbia
Immaculate Conception Cem
City Cem
Spring
Cem
Creek


U S Coast Guard
Lyon Sch
MISSOURI
ILLINOIS
Mile 173
Broadway
Bella Villa
St Andrew Sch
LEMAY
Chemical Tanks
ST LOUIS CITY
ST CLAIR CO
Old Prairie du Pont
GRADE
OLD RR
Vulcan
Ivory
Notre Dame Convent
Odd Fellows Cem
ST LOUIS CO
ST CLAIR CO
MONROE CO
MISSISSIPPI RIVER
SUGAR LOAF
BOTTOMS
AMERICAN
ILLINOIS CENTRAL GULF
ST CLAIR CO
MONROE CO
Jefferson Barracks
Mile 170
CEMETERY



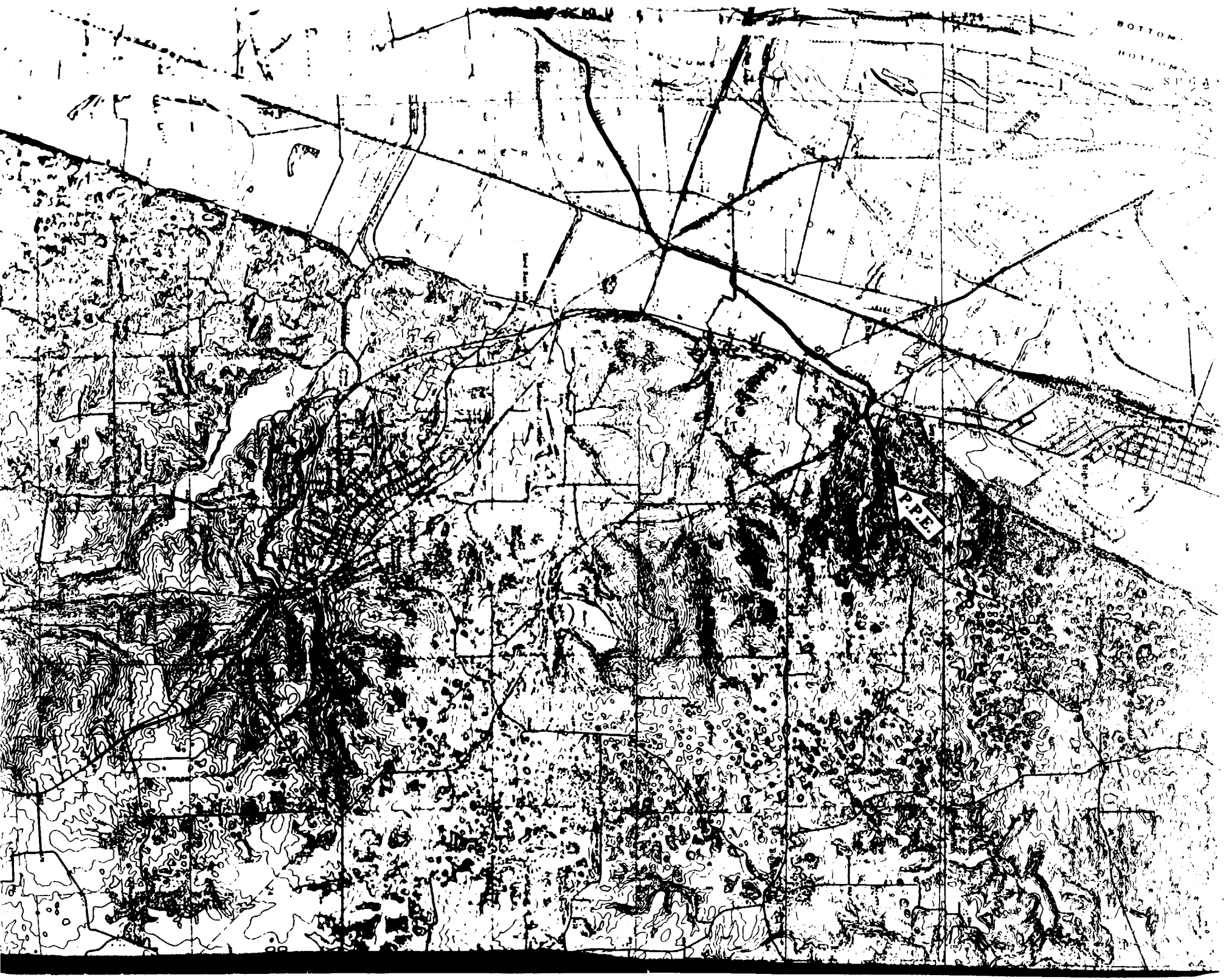
T 1 N R 10 W
Old Prairie du Pont Cr
OLD RAILROAD GRADE
North Dupo Ch
Stolle
Labras Lake
Radio Towers
Trailer Park
TERMINAL RAILROAD ASSOCIATION
Falling Spring
Fillman
HARDING
CANAL
Triple Lakes
Zion Ch
Prairie Lake
Sparrow Creek
Jackson Sch

APPENDIX B
15-MILE SURFACE WATER MAP



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	Ilada Waste Company 980497978
15-MILE SURFACE WATER MAP	
Site Location	Surface Water

RIVER
MISSISSIPPI
AMERICAN
BOTTOMS
BOTTOMS
SUGAR
BOTTOMS
AMERICAN
BOTTOMS


AMERICAN
BOTTOM
BOTTOM
P.P.E.

PPE

APPENDIX C
TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

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

Base/Neutral Target Compounds

Hexachloroethane
bis(2-Chloroethyl)ether
N-Nitroso-Di-n-Propylamine
Nitrobenzene
Hexachlorobutadiene
2-Methylnaphthalene
1,2,4-Trichlorobenzene
Isophorone
Naphthalene
4-Chloroaniline
bis(2-Chloroethoxy)methane
Hexachlorocyclopentadine
2-Chloronaphthalene
2-Nitroaniline
Acenaphthylene
Dibenzofuran
Dimethylphthalate
2,6-Dintrotoluene
Fluorene
4-Nitrolaniline
4-Chlorophenyl-phenylether
2,4-Dinitrotoluene
Diethylphthalate
N-Nitrosodiphenylamine(1)
Hexachlorobenzene
Phenanthrene
4-Bromophenyl-phenylether
Anthracene
Di-n-Butylphthalate
Fluoranthene
Pyrene
Butylbenzylphthalate
bis(2-Ethylhexyl)phthalate
Chrysene
Benzo(a)anthracene
3,3'-Dichlorobenzidine
Di-n-Octylphthalate
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene
Benzo(g,h,i)perylene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene

Acid Target Compounds

Phenol
2-Chlorophenol
2-Nitrophenol
2-Methylphenol
2,4-Dimethylphenol
4-Methylnaphthalene
2,4-Dichlorophenol
2,4,6-Trichlorophenol
2,4,5-Trichlorophenol
4-Chloro-3-Methylphenol
2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
Pentachlorophenol
4-Nitrophenol

Pesticide/PCB Target Compounds

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

Inorganic Target Compounds

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

APPENDIX D
SITE PHOTOGRAPHS

November 28, 1995

8:55 AM

GRAPH TAKEN BY:
Weber

NUMBER: 1

TION: L1630355003
Waste Company
Clair County
497978

TAKEN TOWARD:

sample X207
from Hill Creek
concrete
ow.

November 28, 1995

8:55 AM

GRAPH TAKEN BY:
Weber

NUMBER: 2

TION: L1630355003
Waste Company
Clair County
497978

TAKEN TOWARD:

point X207
upstream segment
Creek in the
ound.

ember 28, 1995

:: AM

PH TAKEN BY:
er

MBER: 3

N: L1630355003
ste Company
r County
7978

AKEN TOWARD:

of duplicate
samples X205 &

ember 28, 1995

30 AM

APH TAKEN BY:
er

MBER: 4

N: L1630355003
aste Company
r County
697978

AKEN TOWARD:

te sediment
X205 & X206 with
ream segment of
eek in the
und.

ember 28, 1995

15 AM

APH TAKEN BY:

er

MBER: 5

N: L1630355003

aste Company

r County

97978

AKEN TOWARD:

sample X204

tream segment of

ek in the

nd.

ember 28, 1995

15 AM

APH TAKEN BY:

er

MBER: 6

N: L1630355003

aste Company

r County

97978

AKEN TOWARD:

of sediment

X204.

ember 28, 1995

30 AM

APH TAKEN BY:
er

MBER: 7

N: L1630355003
ste Company
r County
7978

AKEN TOWARD:

d sediment
03 for Hill
e of the two
ich flow
the site.

ember 28, 1995

30 AM

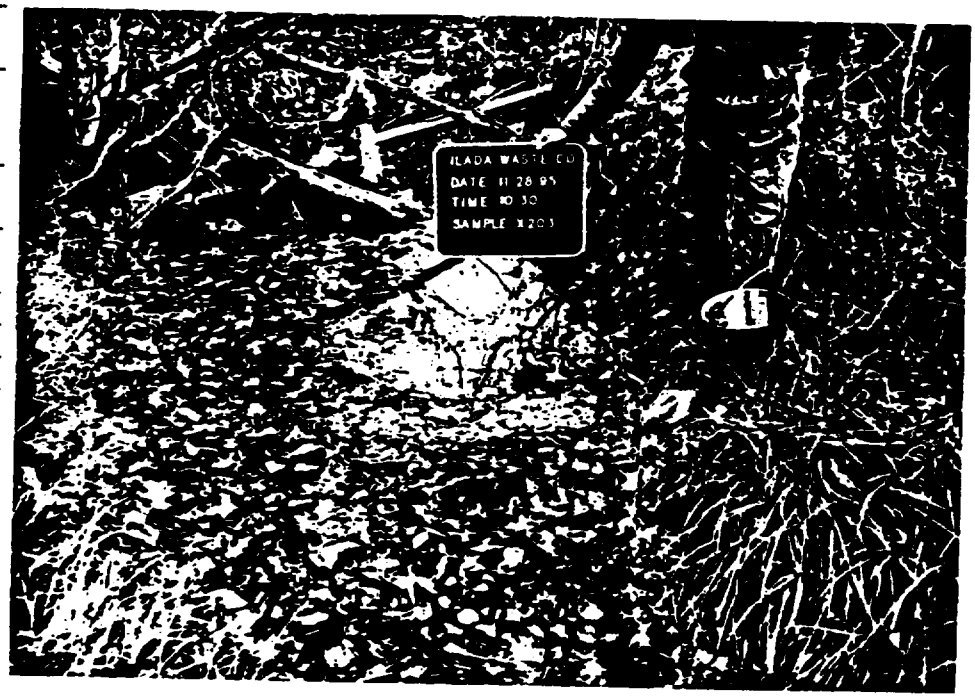
PH TAKEN BY:
er

BER: 8

L1630355003
te Company
County
978

EN TOWARD:

d sediment
3 with
segment of Hill
the background.



November 28, 1995

10:50 AM

GRAPH TAKEN BY:
Weber

NUMBER: 9

TION: L1630355003
Waste Company
Clair County
80497978

TAKEN TOWARD:

ent sample X202
from unnamed creek
ed on site which
into Hill Creek.

November 28, 1995

10:50 AM

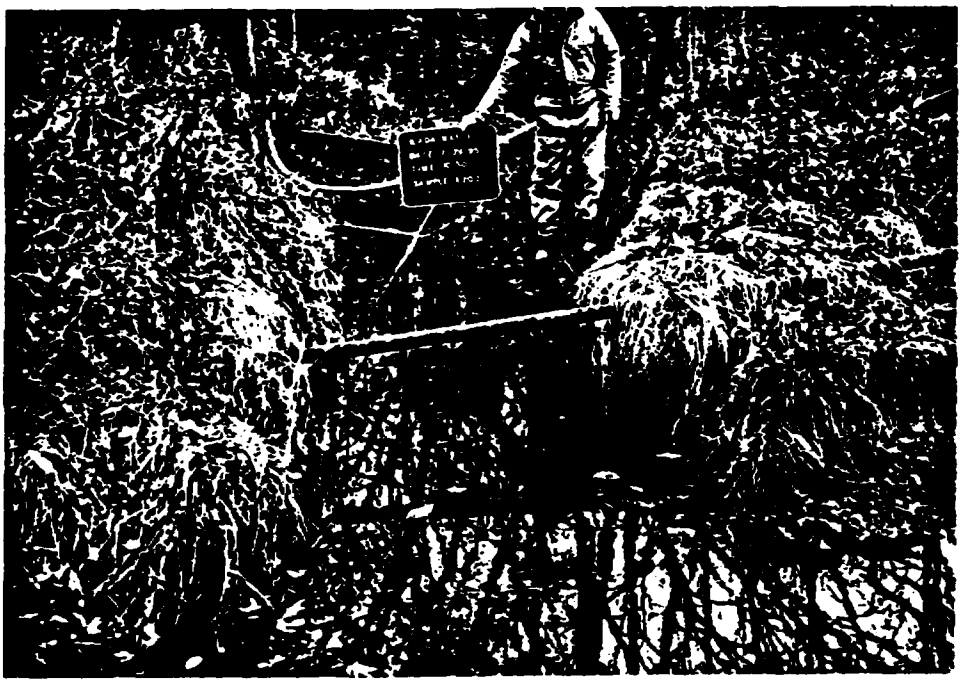
GRAPH TAKEN BY:
Weber

NUMBER: 10

TION: L1630355003
Waste Company
Clair County
80497978

TAKEN TOWARD:

ent sample X202
upstream segment of
ed stream in the
ground.



November 28, 1995

11:10 AM

GRAPH TAKEN BY:
Weber

NUMBER: 11

TION: L1630355003
Waste Company
Clair County
80497978

TAKEN TOWARD:

round sediment
e X201 for the
ed stream located
te that feeds into
Creek.

November 28, 1995

11:10 AM

OGRAPH TAKEN BY:
Weber

O NUMBER: 12

TION: L1630355003
a Waste Company
Clair County
980497978

O TAKEN TOWARD:
h

ment sample X201
upstream segment of
face water pathway in
background.

November 28, 1995

12:45 PM

GRAPH TAKEN BY:
Weber

NUMBER: 13

ION: L1630355003
Clair County
Waste Company
80497978

TAKEN TOWARD:

up of duplicate
samples X102 &

November 28, 1995

12:45 PM

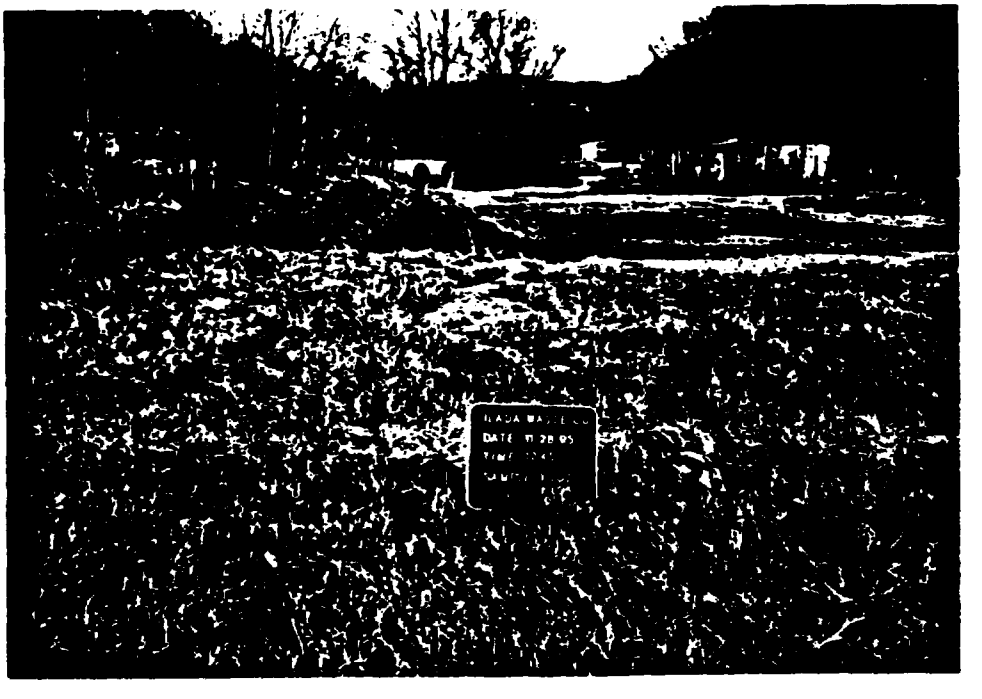
OGRAPH TAKEN BY:
Weber

NUMBER: 14

TION: L1630355003
Clair County
Waste Company
80497978

TAKEN TOWARD:

icate soil samples
& X103 with portion
he facility in the
ground.



vember 28, 1995

:30 PM

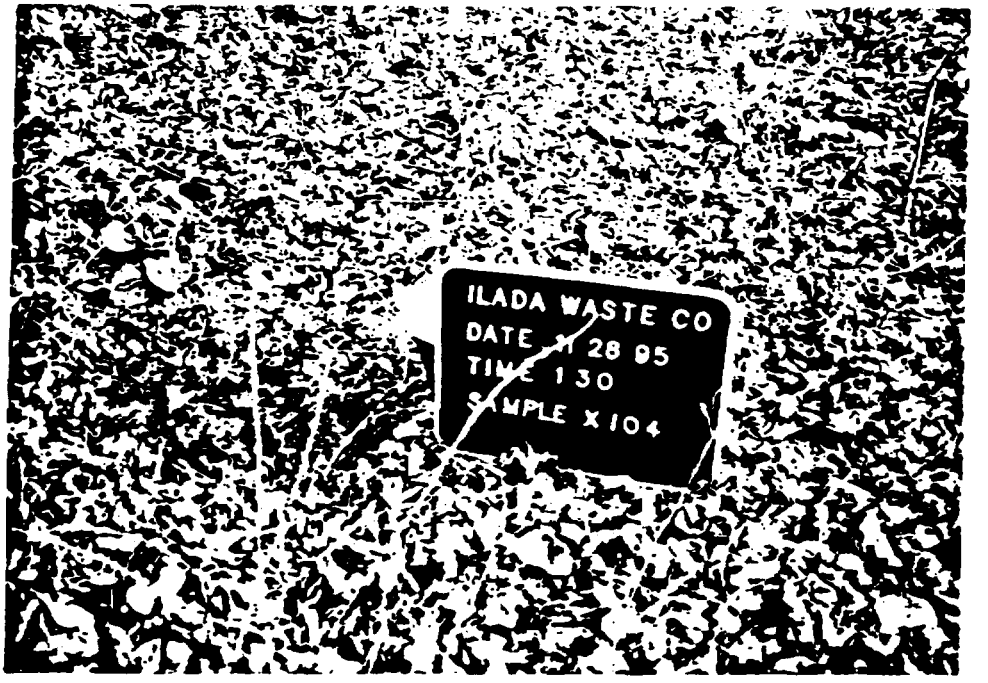
APH TAKEN BY:
ber

NUMBER: 15

ON: L1630355003
air County
Waste Company
497978

TAKEN TOWARD:

up of deep soil
X104 collected in
cation of a filled
e impoundment.



November 28, 1995

1:30 PM

GRAPH TAKEN BY:
Weber

NUMBER: 16

TION: L1630355003
lair County
Waste Company
30497978

TAKEN TOWARD:

soil sample X104
from the area of
f the filled
ce impoundments on

November 28, 1995

1:50 PM

RAPH TAKEN BY:
eber

NUMBER: 17

ON: L1630355003
air County
Waste Company
497978

TAKEN TOWARD:

p of soil sample
ollected in an
here above ground
e tanks once

November 28, 1995

1:50 PM

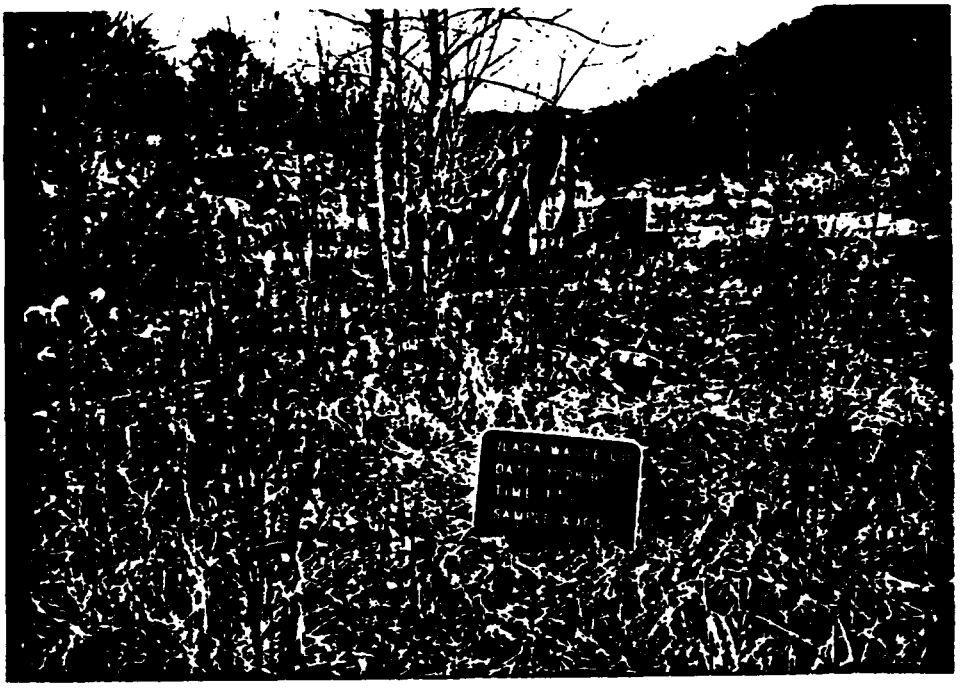
RAPH TAKEN BY:
eber

NUMBER: 18

ON: L1630355003
air County
Waste Company
0497978

TAKEN TOWARD:

sample X105 with a
on of the facility
e background.



:vember 28, 1995

:15 PM

:APH TAKEN BY:
:ber

NUMBER: 19

:ON: L1630355003
:air County
Waste Company
:497978

TAKEN TOWARD:

:p of soil sample
It appeared that
:erground pipe had
in this area with
.y stained soils.

November 28, 1995

2:15 PM

:GRAPH TAKEN BY:
Weber

) NUMBER: 20

:ION: L1630355003
: Waste Company
:lair County
:80497978

) TAKEN TOWARD:
:

sample X106 from a
:rent perspective.
area was utilized
:lada for drum
:age.

:ovember 28, 1995

:45 PM

RAPH TAKEN BY:
eber

NUMBER: 21

ON: L1630355003
Waste Company
air County
0497978

TAKEN TOWARD:

ound soil sample
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ty in the
ound.

November 28, 1995

2:45 PM

GRAPH TAKEN BY:
Geber

NUMBER: 22

ION: L1630355003
Waste Company
Lair County
30497978

TAKEN TOWARD:

up of background
sample X101 with
on of Cement Hollow
in the background.

Lusan Industries
L1630355003-St. Clair Co.
~~Ilada Waste Company~~
ILD 980497978
SF/HRS

Site Team Evaluation Prioritization

CERCLA

Analytical Results

Illinois Environmental Protection Agency

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

SCREENED

Printed on Recycled Paper

DATA QUALIFIERS

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

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on Jan 10, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

TO: Data User: IEPA Patricia J Scott for Steve Ostrodka
01/24/96

We have reviewed the data for the following case:

SITE NAME: ILADA Waste (IL)

CASE NUMBER: 24257 SDG NUMBER: EABF1

Number and Type of Samples: 13 (soil)

Sample Numbers: EABF1-3, EAPA9, EAPB0, EARH3-8
EARJ0-1

Laboratory: ATAS Hrs. for Review: 17+2=19

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

Patricia J Scott

RECEIVED
JAN 30 1996
IEPA/DLPC

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

LABORATORY: A T A S **CASE: 24257**

SITE NAME: Ilada Waste (IL) **SDG: EABF1**

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

This review covers thirteen (13) low concentration soil samples numbered: **EABF1**, **EABF2**, **EABF3**, **EAPA9**, **EAPB0**, **EARH3**, **EARH4**, **EARH5**, **EARH6**, **EARH7**, **EARH8**, **EARJ0** and **EARJ1** collected on 11/28/95. The American Technical & Analytical Services, Inc. (ATAS), MO received the samples on 11/29/95 in good condition for the full list of organic analysis following the CLP SOW OLM03.2 protocol.

All Volatile analyses were performed within the technical holding time of fourteen (14) days after sample collection; therefore, the results are acceptable.
All Semivolatile and Pesticide/PCB sample extractions were performed within fourteen (14) days and all analyses were performed within forty (40) days after extraction; therefore, the results are acceptable.

Sample **EABF2** was used as the matrix spike/matrix spike duplicates in all three fractions.

Based on the same sample collection times reported in the Organic Traffic Report, sample **EAPA9** was specified as a field duplicate of **EABF3** but they were not explicitly identified as such.

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

Reviewed by: _____Krystyna Minczuk__Lockheed/ESAT
Date:__January 12th, 1996__

NARRATIVE

LABORATORY: A T A S **CASE: 24257**

SITE NAME: Ilada Waste (IL) **SDG: EABF1**

1.HOLDING TIME

Thirteen (13) low concentration soil samples numbered: EABF1, EABF2, EABF3, EAPA9, EAPB0, EARH3, EARH4, EARH5, EARH6, EARH7, EARH8, EARJ0 and EARJ1 were collected on 11/28/95. The American Technical & Analytical Services, Inc. (ATAS), MO received the samples on 11/29/95 in good condition for the full list of organic analysis following the CLP SOW OLM03.2 protocol.

All Volatile analyses were performed within the technical holding time of fourteen (14) days after sample collection; therefore, the results are acceptable.
All Semivolatile and Pesticide/PCB sample extractions were performed within fourteen (14) days and all analyses were performed within forty (40) days after extraction; therefore, the results are acceptable.

2.GC/MS TUNING PERFORMANCE

All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-1701 and DB-17 columns were acceptable (<20%); therefore, the results are acceptable.

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

3.CALIBRATION

Initial and continuing calibration standards of Volatile, Semivolatile and Pesticide/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

Reviewed by: _____Krystyna Minczuk__Lockheed/ESAT
Date:__January 12th, 1996__

NARRATIVE

LABORATORY: A T A S CASE: 24257

SITE NAME: Ilada Waste (IL) SDG: EABF1

4.METHOD BLANK

Volatile:

VBLKDH and VBLKD1 are the low level soil Volatile method blanks. Both method blanks contained the common laboratory contaminant Methylene Chloride (3 µg/Kg and 4 µg/Kg respectively).

The presence of the laboratory contaminant in any of the samples associated with VBLKDH and VBLKD1 is flagged as undetected "U", when sample results are less than ten (10) times the blank results.

VHBLKD1 is the Volatile storage blank. This blank reported one (1) Volatile tentatively identified compound. There were no samples associated with the storage blank.
The Volatile method blank summary (FORM IV VOA) lists the associated samples.

Semivolatile:

SBLKAA is the low level soil Semivolatile method blank. This method blank contained the common laboratory contaminant bis(2-Ethglhexyl)phthalate (24 µg/Kg) and reported six (6) Semivolatile tentatively identified compounds.
The presence of the common laboratory contaminant in the samples associated with SBLKAA is flagged as non-detected "U" when the sample results are less than ten (10) times the blank results.
The presence of any of the TICs in the samples associated with SBLKAA is flagged as non-detected "U" when the sample results are less than five (5) times the blank results.
The Semivolatile method blank summary (FORM IV SV) lists the associated samples.

Pesticide/PCB:

PBLK5S is the soil Pesticide method blank. PBLK5S is contaminated by Heptachlor (0.12 µg/Kg) and Methoxychlor (0.36 µg/KG).
The presence of Heptachlor and Methoxychlor in the samples associated with PBLK5S is flagged as non-detected "U" when the sample results are less than five (5) times the blank results.

There were sixteen (16) Pesticide instrument blanks. All of the blanks are clean. There were no samples associated with instrument blanks.
The Pesticide method blank summary (FORM IV PEST) lists the associated samples.

Reviewed by: _____Krystyna Minczuk__Lockheed/ESAT
Date:__January 12th, 1996__

NARRATIVE

LABORATORY: A T A S CASE: 24257

SITE NAME: Ilada Waste (IL) SDG: EABF1

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

Volatile:
The low level soil system monitoring compounds were within the QC limits; therefore, the results are acceptable.

Semivolatile:
The low level soil surrogates were within the QC limits; therefore, the results are acceptable.

Pesticide/PCB:
The soil surrogates DCB1 (Decachlorobiphenyl) was above the QC limit (30-150) in sample EARH3 (152) and DCB2 in diluted sample EARH8DL (161).
Any positive Pesticide results in samples EARH3 should be considered estimated "J". Results for EARH8DL are not qualified because the undiluted analysis met criteria.

6.MATRIX SPIKE/SPIKE DUPLICATES

Sample EABF2 was used as a soil matrix spike/matrix spike duplicate in all three fractions.

Volatile:
All spike recoveries and RPDs were within the QC limits; therefore, the results are acceptable.

Semivolatile:
All spike recoveries and RPDs were within the QC limits; therefore, the results are acceptable.

Pesticide/PCB:
Matrix spike duplicate for 4,4'-DDT (140) was reported above the QC limit (23-134). Percent RPD (%RPD) for Heptachlor and Dieldrin was outside the QC limits.
Positive results for 4,4'-DDT in the unspiked sample EABF2 should be considered estimated "J". Positive results for Heptachlor and Dieldrin in the unspiked sample EABF2 should be considered estimated "J", and non-detected quantitation limits should be considered estimated "UJ".

Reviewed by: Krystyna Minczuk Lockheed/ESAT
Date: January 12th, 1996

NARRATIVE

LABORATORY: A T A S **CASE: 24257**

SITE NAME: Ilada Waste (IL) **SDG: EABF1**

7.FIELD BLANK AND FIELD DUPLICATE

Based on the same sample collection times reported in the Organic Traffic Report, sample **EAPA9** was specified as a field duplicate of **EABF3** but they were not explicitly identified as such.
Compounds detected in the sample EABF3 and sample duplicate EAPA9 are presented in the Table below:

Compounds (µg/Kg)	EABF3	EAPA9
Volatile:		
# VOA TICs	2	-
Semivolatile:		
Acenaphthylene	35	39
Phenanthrene	120	30
Anthracene	30	-
Fluoranthene	160	53
Pyrene	270	280
Benzo(a)anthracene	100	55
Chrysene	180	130
Benzo(a)pyrene	180	-
Benzo(g,h,i)perylene	170	210
# SVOA TICs	12	16
Pesticide/PCBs:		
Aroclor 1260	2800	2400

8.INTERNAL STANDARDS

Volatile:
The internal standards area counts for IS1 (BCM) Bromochloromethane, IS2 (DFB) 1,4-Difluorobenzene, IS3 (CBZ) Chlorobenzene-d5 was below the QC limit in sample EABF2MSD and IS3 was below the QC limit in samples EARH3 and EARH3RE.
The positive results for the target compounds which are associated with IS1, IS2 and IS3 for above noted samples should be considered estimated "J", and non-detected quantitation limits should be considered estimated "UJ".
Please, refer to Table 4 for the list of associated compounds for IS1, IS2 and IS3.

Semivolatile:
The internal standards area counts for IS3 (ANT) Acenaphthylene d10, IS4 (PHN) Phenanthrene d10, IS5 (CRY) Chrysene d12 and IS6

Reviewed by: _____Krystyna Minczuk__Lockheed/ESAT
Date:__January 12th, 1996__

NARRATIVE

LABORATORY: A T A S CASE: 24257

SITE NAME: Ilada Waste (IL) SDG: EABF1

(PRY) Perylene d12 was below the QC limit in sample EABF2MSD. The positive results for the target compounds which are associated with IS3, IS4, IS5 and IS6 for sample EABF2MSD should be considered estimated "J", and non-detected quantitation limits should be considered estimated "UJ".
Please, refer to Table 4 for the list of associated compounds for IS3, IS4, IS5 and IS6.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the Volatile, Semivolatile and Pesticide/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The Volatile, Semivolatile and Pesticide/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable. The CRQLs were adjusted to reflect all sample dilutions and percent moisture.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.
GC baselines for the Pesticide analysis was acceptable.

12.ADDITIONAL INFORMATION

Semivolatile:
A large number of SVOA TICs were reported in samples:

EABF1	- 18	EARH5	- 10
EARH6	- 10	EABF3	- 12
EAPA9	- 17	EARH7	- 9
EARH8	- 13	EAPB0	- 14
EARH3	- 13	EARJ0	- 13
EARJ1	- 12	EARH4	- 10

Pesticide/PCBs:
Aroclor 1260 exceeded the calibration range in samples: EABF3, EAPA9, EAPB0, EARH4, EARH5 and EARH8. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Reviewed by: _____Krystyna Minczuk__Lockheed/ESAT
Date:__January 12th, 1996__

CALIBRATION OUTLIERS
VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 24257 LABORATORY: ATAS

COLUMN: DB-624 SITE NAME: Hada Waste (4)

HEATED PURGE (Y/N): Y

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/14/95 13:46			11/30/95 10:11			12/01/95 10:44								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	1.777			.997	28.3	J	1.593	10.5.0	J						
Bromomethane	0.10															
Vinyl chloride	0.10	1.413			1.710			1.971	39.0	J						
Chloroethane	0.01	.981			1.142			1.243	26.7	J						
Methylene chloride	0.01	1.490			1.601			1.906	28.9	J						
Acetone	0.01	1.621			1.796			2.292	41.4	J						
Carbon disulfide	0.01	3.728			4.564			5.009	34.4	J						
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01	2.442			2.892			4.043	65.6	J						
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
trans-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01	.916			.854			1.035	32.6	J						
2-Hexanone	0.01	.794			.921			1.031	29.8	J						
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50	.45			.565	25.3	J	.615	36.4	J						
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene	0.20															
1,2-Dichloroethane-d4																

Samples affected:

VBLKDH	VBLKD1
EABF2, MSMSD	EABF3
EAPB0	EAPA9
EARJ1	EARM8
EABF1	EARM8RE
EARM3	EARM5
EARM4	VMBLK1
EARM7	
EARJ0, EARM6	

Reviewer's Init/Date: KM 01/11/96

J/R = All positive results are estimated "J" and non-detected results are unusable "R".

* = These flags should be applied to the analytes on the sample data sheets.

= Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

SE\SAS#: 24257

LABORATORY: ATAS

COLUMN: -

SITE NAME: Ilada Waste (IL)

Instrument# A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/30/95 12:06			12/04/95 11:24			12/05/95 13:07			12/06/95 19:32					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01	3.756			2.701	28.1	J	2.358	37.2	J	3.468					
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
robenzene	0.20															
phorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
xachlorobutadiene	0.01	.202			.253	25.2	J	.242	[illegible]		.254	25.7	J			
hloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01	.377			.474	25.7	J	.416			.391					
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
enaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

	SBLKAA	EABF2 MSD	EAPA9
	EABF2		EAPB0
	EABF2MS		EARH8
			EARJ0
			EARJ1
			EARH3
			EARH4
			EARH5

Reviewer's Init/Date: KM 01/11/96

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.

\# = Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 24257

COLUMN:

LABORATORY: ATAS

SITE NAME: Hada Waste (IL)

Instrument# A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/30/95 12:06			12/04/95 11:24			12/05/95 13:07			12/06/95 19:32					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01															
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70	1.087			1.178			1.239			1.493	25.9	J			
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01	1.166			1.209	25.9	J	1.177			1.142					
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: KM 01/11/96

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.

= Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

ESAS#: 24257 LABORATORY: ATAS

COLUMN: SITE NAME: Hada Waste (IL)

Instrument# A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/15/95 10:44			12/15/95 10:46			12/18/95 11:09								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

	EABF3	EARM7	
	EABF1		
	EABF6		

Reviewer's Init/Date: KM 01-11-96

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.

= Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 24257
COLUMN:

LABORATORY: ATAS

SITE NAME: Theda Waste (IL)

Instrument# A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/15/95 10:44			12/15/95 10:44			12/18/95 11:09								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01															
Benzo(a)anthracene	0.80															
Chrysene	0.70															
[illegible]-Ethylhexyl)phthalate	0.01															
[illegible]-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: KM 01-11-96

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

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

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 24257 LABORATORY: ATAS

COLUMN: DB-1701 SITE NAME: Hada Waste (IL)

Instrument# HP-05A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/29-29/95			12/05/95 2:32			12/19/95 19:45								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PBLK55	EARM3		
	EARJ0	EARM6		
	EARJ1	EABF3DL		
		EABA9DL		
		EARH5DL		

Reviewer's Init/Date: KM 01/12/95

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

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 24297 LABORATORY: ATAS

COLUMN: DB-17 SITE NAME: Ilada Waste (IL)

Instrument# HP-05B		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		11/24-29/95			12/05/95 2:30			12/19/95 19:45								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PBLK5S	EARH3		
	EAR70	EARH6		
	EAR71	EABF30L		
		EAPA90L		
		EARH50L		

Reviewer's Init/Date: KM 01/12/98

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

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 24257 LABORATORY: ATAS

COLUMN: DB-1701 SITE NAME: Thada Waste (IL)

Instrument# MB-05A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/08-08/95			12/11/95 23:29											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
'osulfan II	0.01															
4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
'hlor 1221																
chlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

EABF2			
EABF2MS			
EABF2MSD			
EABF3			
EAPA9			
EAPB0			
EAPB0DL			
EARM8			
EARM8DL			
EABF1			
EARM4			
EARM4DL			
EARM5			
EARM7			

Reviewer's Init/Date: KM 01-12-96

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

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 24257 LABORATORY: ATAS

COLUMN: DB-17 SITE NAME: Shade Waste (IL)

Instrument# HB-05A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/08-08/95			12/11/95 23:28											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

EABF2
EABF2MS
EABF2MSD
EABF3
EAPA9
EAPB0
EAPB0DL
EARM8
EARM8DL
EABF1
EARM4
EARM4DL
EARM5
EARM7

Reviewer's Init/Date: KM 01-12-96

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

ORGANIC DATA QUALIFIER DEFINITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TABLE 4

(For Multi-Media, Multi-Concentration Analysis)

VOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION

Bromochloromethane	1,4-Difluorobenzene	Chlorobenzene-d_5
Chloromethane	Bromoform	2-Hexanone
Bromomethane	1,1,1-Trichloroethane	4-Methyl-2-pentanone
Vinyl chloride	Carbon tetrachloride	Tetrachloroethene
Chloroethane	Bromodichloromethane	1,1,2,2-Tetrachloroethane
Methylene chloride	1,2-Dichloropropane	Toluene
Acetone	trans-1,3-Dichloropropene	Chlorobenzene
Carbon disulfide	Trichloroethene	Ethylbenzene
1,1-Dichloroethene	Dibromochloromethane	Styrene
1,1-Dichloroethane	1,1,2-Trichloroethane	Xylene(total)
1,2-Dichloroethene(total)	Benzene	Bromofluorobenzene(surr,smc)
Chloroform	cis-1,3-Dichloropropene	Toluene-d_8(surr,smc)
1,2-Dichloroethane		
1,2-Dichloroethane-d_4(surr,smc)		
2-Butanone		

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION

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

surr) - surrogate
smc) - system monitoring compound

AMERICAN TECHNICAL & ANALYTICAL SERVICES, INC.
875 FEE FEE ROAD
MARYLAND HEIGHTS, MISSOURI 63043
(314) 434-4570

SDG NARRATIVE

RECEIVED
JAN 10 1996
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

CONTRACT: 68-D5-0018

CASE: 24257

SDG #: EABF1

REGION: V

The samples listed below were received in good condition on November 29,1995.

ATAS ID	EPA SAMPLE ID	MATRIX
14387.01	EABF2	SOIL
14387.02	EABF2MS	SOIL
14387.03	EABF2MSD	SOIL
14387.04	EABF3	SOIL
14387.05	EAPA9	SOIL
14387.06	EAPB0	SOIL
14387.07	EARH8	SOIL
14387.08	EARJ0	SOIL
14387.09	EARJ1	SOIL
14387.10	EABF1	SOIL
14387.11	EARH3	SOIL
14387.12	EARH4	SOIL
14387.13	EARH5	SOIL
14387.14	EARH6	SOIL
14387.15	EARH7	SOIL

Sample EARH9 was recorded on the traffic report but was not shipped. See telephone log pages 2509 and 2510.

VOLATILE SAMPLE ANALYSIS:

The samples were analyzed following CLP SOW (OLM03.2).

The trap used for Volatile analysis is: Tekmar OV-1/Tenax/Silica, with 1 cm of OV-1, 15 cm of Tenax and 8 cm of Silica.

The column used for Volatile analysis is: J & W DB-624, 75 meter, 0.53 mm ID, 3 micron film thickness.

Sample EARH3 was reinjected for low internal standard areas. The reinjection confirmed the low internal standard areas and is a billable sample.

SEMIVOLATILE SAMPLE ANALYSIS:

The samples were analyzed following CLP SOW (OLM03.2).

The column used for Semivolatile analyses is: Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25 mm ID, 1.0 micron film thickness.

The following samples had alkane reports and these reports are at the back of this narrative: EABF1, EABF2, EABF3, EAPA9, EAPB0, EARH3, EARH4, EARH5, EARH6, EARH7, EARH8, EARJ0, EARJ1 and SBLKAA.

PESTICIDE/PCB SAMPLE ANALYSIS:

The samples were analyzed following CLP SOW (OLM03.2).

The columns used for this Pesticide/PCB analysis are: J&W DB-1701, 30 meter, 0.32 mm ID, 0.25 micron film thickness and J&W DB-17, 30 meter, 0.32 mm ID, 0.25 micron film thickness.

Samples EABF3, EAPA9, EAPB0, EARH4, EARH5 and EARH8, were diluted for overange arochlors and both analyses are reported and billable samples.

The Pesticide Residue Expert deleted single component pesticide peaks which were false positives due to the arochlors present.

MISCELLANEOUS:

The CAS numbers on some of the TIC compounds may be 0-00-0. The NBS 75K library database does not have the correct CAS number for these compounds and it assigns "0-00-0" as the CAS number.

All manual integrations in this data package for Volatile, Semivolatile and Pesticide/PCB analysis have been performed for one of the following reasons.

a. Data system missed peak during acquisition.
b. Data system improperly integrated peak.

The manual integrations in this data package are placed behind their associated standards or samples.

ADDITIONAL BILLABLES:

VOLATILE ANALYSIS	SEMIVOLATILE ANALYSIS	PESTICIDE/PCB ANALYSIS
EARH3RE (Reinject)	None	EABF3DL (Dilution)
		EAPA9DL (Dilution)
		EAPB0DL (Dilution)
		EARH4DL (Dilution)
		EARH5DL (Dilution)
		EARH8DL (Dilution)

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

Richard Lowe

Richard Lowe
Laboratory Manager

December 29, 1995

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ATAS, INC. Contract: 68-D5-0018

ab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLKDH	94	96	91		0
02	EABF2	100	96	93		0
03	EABF2MS	111	105	101		0
04	EABF2MSD	99	96	91		0
05	EAPB0	102	91	91		0
06	EARJ1	100	94	92		0
07	EABF1	100	94	94		0
08	EARH3	109	90	95		0
09	EARH4	110	87	93		0
10	EARH7	100	92	89		0
11	EARJ0	97	96	97		0
12	EARH6	98	90	93		0
13	VBLKDI	88	89	81		0
14	EABF3	94	89	82		0
15	EAPA9	93	89	83		0
16	EARH8	114	92	88		0
17	EARH3RE	104	90	92		0
18	EARH5	99	85	78		0
19	VHBLKDI	94	95	84		0
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
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

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ATAS, INC. Contract: 68-D5-0018

ıb Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix Spike - EPA Sample No.: EABF2 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	75	0	79	105	59-172
Trichloroethene	75	0	72	96	62-137
Benzene	75	0	77	103	66-142
Toluene	75	0	78	104	59-139
Chlorobenzene	75	0	79	105	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	75	64	85	21	22	59-172
Trichloroethene	75	65	87	10	24	62-137
Benzene	75	70	93	10	21	66-142
Toluene	75	70	93	11	21	59-139
Chlorobenzene	75	71	95	10	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.

VBLKDH

Lab Name: ATAS, INC. Contract: 68-D5-0018

b Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Lab File ID: D4159.D Lab Sample ID: 113095-01

Date Analyzed: 11/30/95 Time Analyzed: 1050

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

Instrument ID: D

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EABF2	14387.01	D4160.D	1331
02	EABF2MS	14387.02	D4161.D	1400
03	EABF2MSD	14387.03	D4162.D	1431
04	EAPB0	14387.06	D4163.D	1500
05	EARJ1	14387.09	D4165.D	1558
06	EABF1	14387.10	D4166.D	1627
07	EARH3	14387.11	D4167.D	1659
08	EARH4	14387.12	D4168.D	1729
09	EARH7	14387.15	D4170.D	1827
10	EARJ0	14387.08	D4171.D	1856
11	EARH6	14387.14	D4172.D	1926
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKDI

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Lab File ID: D4175.D Lab Sample ID: 120195-01

Date Analyzed: 12/01/95 Time Analyzed: 1132

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

Instrument ID: D

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EABF3	14387.04	D4176.D	1208
02	EAPA9	14387.05	D4177.D	1238
03	EARH8	14387.07	D4178.D	1308
04	EARH3RE	14387.11	D4179.D	1412
05	EARH5	14387.13	D4180.D	1441
06	VHBLKDI	14387.16	D4181.D	1510
07				
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09				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKDH

Lab Name: ATAS, INC. Contract: 68-D5-0018

b Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 113095-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4159.D

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

% Moisture: not dec. 0 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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	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.

VBLKDH

Lab Name: ATAS, INC. Contract: 68-D5-0018

b Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 113095-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4159.D

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

% Moisture: not dec. 0 Date Analyzed: 11/30/95

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

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

VBLKDI

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 120195-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4175.D

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

% Moisture: not dec. 0 Date Analyzed: 12/01/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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	4	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.

VBLKDI

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 120195-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4175.D

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

% Moisture: not dec. 0 Date Analyzed: 12/01/95

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

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

EABF1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4166.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 34 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	~~8~~ 15	JB
67-64-1	Acetone	12	J
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (Total)	15	U

KM 01/11

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EABF1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4166.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 34 Date Analyzed: 11/30/95

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

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	7.542	17	NJ
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF2

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4160.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 33 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15 ~~7~~	JB
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (Total)	15	U

KM 01/11/9

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EABF2

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4160.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 33 Date Analyzed: 11/30/95

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	Hexane	7.529	15	NJ
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4176.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 28 Date Analyzed: 12/01/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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/~~8~~	JB u KM 01/11/96
67-64-1	Acetone	9	J
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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EABF3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4176.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 28 Date Analyzed: 12/01/95

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

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	Hexane	7.526	8	NJ
2. 55429-85-1	Benzeneethanamine, N-[(penta	18.625	11	NJ
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPA9

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4177.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 24 Date Analyzed: 12/01/95

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

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

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

KM 01/11/

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAPA9

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4177.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 24 Date Analyzed: 12/01/95

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

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

EAPB0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4163.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 24 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~6~~	JB KM 01/11/96
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (Total)	13	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAPB0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4163.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 24 Date Analyzed: 11/30/95

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

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	7.532	10	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
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27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4167.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 28 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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~~ 9	JB
67-64-1	Acetone	14	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

ICM 01/11/96

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4167.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 28 Date Analyzed: 11/30/95

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

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

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	7.545	23	NJ
2.		Unknown	9.865	10	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH4

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4168.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 16 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	~~128~~	JB U KH 0.111
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (Total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH4

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4168.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 16 Date Analyzed: 11/30/95

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

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

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH5

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4180.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 15 Date Analyzed: 12/01/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	~~12~~ 6	JB u KM 0.1.1.1
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (Total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH5

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4180.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 15 Date Analyzed: 12/01/95

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

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

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	7.556	8	NJ
2.		Unknown	13.923	8	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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15.					
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19.					
20.					
21.					
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25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH6

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4172.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 25 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	~~13~~	JB
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	4	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (Total)	13	U

KM 01/11/

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH6

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4172.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 25 Date Analyzed: 11/30/95

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

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	7.576	9	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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17.					
18.					
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24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH7

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4170.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~8~~	JB KM 01/11
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (Total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH7

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4170.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 11/30/95

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

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	7.563	22	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH8

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4178.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 14 Date Analyzed: 12/01/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~6~~	JB
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (Total)	12	U

KM 0.1.11

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH8

ab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4178.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 14 Date Analyzed: 12/01/95

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	Hexane	7.533	9	NJ
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4171.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 35 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15 ~~9~~	JB μ KM 01/11
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (Total)	15	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARJ0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4171.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 35 Date Analyzed: 11/30/95

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	Hexane	7.552	18	NJ
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4165.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 31 Date Analyzed: 11/30/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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	14.8	JB
67-64-1	Acetone	15	
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)	10	J
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

KM 0.1 ml

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARJ1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4165.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 31 Date Analyzed: 11/30/95

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 110-54-3	Hexane	7.534	13	NJ
2.				
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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

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	SBLKAA	43	52	51	36	36	47	37	44	0
02	EABF2	70	81	72	57	51	69	54	60	0
03	EABF2MS	80	93	77	58	60	77	58	73	0
04	EABF2MSD	68	86	69	53	61	76	55	59	0
05	EAPA9	63	83	93	62	61	92	60	56	0
06	EAPB0	78	85	92	72	72	85	71	66	0
07	EARH8	62	74	77	59	61	74	59	57	0
08	EARJ0	61	73	78	53	58	72	56	47	0
09	EARJ1	74	83	91	67	70	85	68	65	0
10	EARH3	65	75	74	58	62	78	60	60	0
11	EARH4	77	85	96	69	71	85	68	66	0
12	EARH5	72	84	85	66	68	77	66	65	0
13	EABF3	45	47	47	42	40	46	42	42	0
14	EABF1	48	53	73	45	42	63	43	42	0
15	EARH6	72	69	77	60	56	71	62	65	0
16	EARH7	42	45	50	37	34	52	35	40	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

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix Spike - EPA Sample No.: EABF2 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3700	0	2200	59	26- 90
2-Chlorophenol	3700	0	2200	59	25-102
1,4-Dichlorobenzene	2500	0	1800	72	28-104
N-Nitroso-di-n-prop.(1)	2500	0	1900	76	41-126
1,2,4-Trichlorobenzene	2500	0	1900	76	38-107
4-Chloro-3-Methylphenol	3700	0	2600	70	26-103
Acenaphthene	2500	0	2100	84	31-137
4-Nitrophenol	3700	0	2800	76	11-114
2,4-Dinitrotoluene	2500	0	2200	88	28- 89
Pentachlorophenol	3700	0	2200	59	17-109
Pyrene	2500	32	1900	75	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3700	2000	54	9	35	26- 90
2-Chlorophenol	3700	2100	57	3	50	25-102
1,4-Dichlorobenzene	2500	1600	64	12	27	28-104
N-Nitroso-di-n-prop.(1)	2500	1300	52	38	38	41-126
1,2,4-Trichlorobenzene	2500	1700	68	11	23	38-107
4-Chloro-3-Methylphenol	3700	2300	62	12	33	26-103
Acenaphthene	2500	1900	76	10	19	31-137
4-Nitrophenol	3700	2200	59	25	50	11-114
2,4-Dinitrotoluene	2500	1800	72	20	47	28- 89
Pentachlorophenol	3700	2800	76	25	47	17-109
Pyrene	2500	1800	71	5	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: 0 out of 22 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKAA

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Lab File ID: AA3926.D Lab Sample ID: 113095-01

Instrument ID: A Date Extracted: 11/30/95

Matrix: (soil/water) SOIL Date Analyzed: 12/04/95

Level:(low/med) LOW Time Analyzed: 1222

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EABF2	14387.01	AA3938.D	12/04/95
02	EABF2MS	14387.02	AA3939.D	12/04/95
03	EABF2MSD	14387.03	AA3947.D	12/05/95
04	EAPA9	14387.05	AA3967.D	12/07/95
05	EAPB0	14387.06	AA3968.D	12/07/95
06	EARH8	14387.07	AA3969.D	12/07/95
07	EARJ0	14387.08	AA3970.D	12/07/95
08	EARJ1	14387.09	AA3971.D	12/07/95
09	EARH3	14387.11	AA3973.D	12/07/95
10	EARH4	14387.12	AA3974.D	12/07/95
11	EARH5	14387.13	AA3975.D	12/07/95
12	EABF3	14387.04	AA4002.D	12/15/95
13	EABF1	14387.10	AA4004.D	12/15/95
14	EARH6	14387.14	AA4010.D	12/15/95
15	EARH7	14387.15	AA4027.D	12/18/95
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COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAA

ıb Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 113095-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3926.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/04/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

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-Dimethyphenol	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
111-91-1	bis(-2-Chloroethoxy)methane	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-Trichlorphenol	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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAA

b Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 113095-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3926.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted:11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/04/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	24	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKAA

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 113095-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3926.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/04/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 6

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	6.030	7900	ANJ
2.		Unknown	6.511	81	J
3.		Unknown	6.957	910	J
4.		Unknown	7.293	160	J
5.		Unknown	7.825	160	J
6.		Unknown	10.073	120	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF1

ab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4004.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 34 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500	U
111-44-4	bis(-2-Chloroethyl)Ether	500	U
95-57-8	2-Chlorophenol	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	U
106-44-5	4-Methylphenol	500	U
621-64-7	N-Nitroso-di-n-propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethyphenol	500	U
120-83-2	2,4-Dichlorophenol	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
91-20-3	Naphthalene	500	U
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
111-91-1	bis(-2-Chloroethoxy)methane	500	U
59-50-7	4-Chloro-3-Methylphenol	500	U
91-57-6	2-Methylnaphthalene	500	U
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorphenol	1200	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	500	U
208-96-8	Acenaphthylene	500	U
606-20-2	2,6-Dinitrotoluene	500	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4004.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 34 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	500	U
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
7005-72-3	4-Chlorophenyl-phenylether	500	U
86-73-7	Fluorene	500	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	500	U
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
86-74-8	Carbazole	500	U
84-74-2	Di-n-butylphthalate	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
85-68-7	Butylbenzylphthalate	500	U
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)anthracene	500	U
218-01-9	Chrysene	500	U
117-81-7	bis(2-Ethylhexyl)phthalate	500	U
117-84-0	Di-n-octylphthalate	96	J
205-99-2	Benzo(b)fluoranthene	500	U
207-08-9	Benzo(k)fluoranthene	500	U
50-32-8	Benzo(a)pyrene	500	U
193-39-5	Indeno(1,2,3-cd)pyrene	500	U
53-70-3	Dibenzo(a,h)anthracene	500	U
191-24-2	Benzo(g,h,i)perylene	500	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EABF1

ab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4004.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 34 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 18

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	6.900	37000	A NJ
2.		Unknown	7.830	1700	JB
3.		Unknown	7.982	190	J
4.		Unknown	8.156	160	J
5.		Unknown	8.666	350	J
6.		Unknown	8.720	220	J
7.		Unknown	8.970	210	J
8.		Unknown	11.006	230	J
9.	544-63-8	Tetradecanoic acid	15.662	250	NJ
10.	109-29-5	Oxacycloheptadecan-2-one	16.965	620	NJ
11.	638-53-9	Tridecanoic acid	17.036	1200	NJ
12.		Unknown	17.857	490	J
13.	7378-99-6	N,N-Dimethyloctylamine	17.950	470	NJ
14.	150-86-7	Phytol	18.087	260	NJ
15.		Unknown	19.530	460	J
16.		Unknown	21.760	440	J
17.	4602-84-0	2,6,10-Dodecatrien-1-ol, 3,7	23.281	670	NJ
18.	638-66-4	Octadecanal	25.696	740	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF2

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3938.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/04/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490	U
111-44-4	bis(-2-Chloroethyl)Ether	490	U
95-57-8	2-Chlorophenol	490	U
541-73-1	1,3-Dichlorobenzene	490	U
106-46-7	1,4-Dichlorobenzene	490	U
95-50-1	1,2-Dichlorobenzene	490	U
95-48-7	2-Methylphenol	490	U
108-60-1	2,2'-oxybis(1-Chloropropane)	490	U
106-44-5	4-Methylphenol	490	U
621-64-7	N-Nitroso-di-n-propylamine	490	U
67-72-1	Hexachloroethane	490	U
98-95-3	Nitrobenzene	490	U
78-59-1	Isophorone	490	U
88-75-5	2-Nitrophenol	490	U
105-67-9	2,4-Dimethyphenol	490	U
120-83-2	2,4-Dichlorophenol	490	U
120-82-1	1,2,4-Trichlorobenzene	490	U
91-20-3	Naphthalene	490	U
106-47-8	4-Chloroaniline	490	U
87-68-3	Hexachlorobutadiene	490	U
111-91-1	bis(-2-Chloroethoxy)methane	490	U
59-50-7	4-Chloro-3-Methylphenol	490	U
91-57-6	2-Methylnaphthalene	490	U
77-47-4	Hexachlorocyclopentadiene	490	U
88-06-2	2,4,6-Trichlorophenol	490	U
95-95-4	2,4,5-Trichlorphenol	1200	U
91-58-7	2-Chloronaphthalene	490	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	490	U
208-96-8	Acenaphthylene	490	U
606-20-2	2,6-Dinitrotoluene	490	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	490	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF2

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3938.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/04/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	490	U
121-14-2	2,4-Dinitrotoluene	490	U
84-66-2	Diethylphthalate	62	J
7005-72-3	4-Chlorophenyl-phenylether	490	U
86-73-7	Fluorene	490	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	490	U
101-55-3	4-Bromophenyl-phenylether	490	U
118-74-1	Hexachlorobenzene	490	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	490	U
120-12-7	Anthracene	490	U
86-74-8	Carbazole	490	U
84-74-2	Di-n-butylphthalate	490	U
206-44-0	Fluoranthene	490	U
129-00-0	Pyrene	32	J
85-68-7	Butylbenzylphthalate	490	U
91-94-1	3,3'-Dichlorobenzidine	490	U
56-55-3	Benzo(a)anthracene	490	U
218-01-9	Chrysene	27	J
117-81-7	bis(2-Ethylhexyl)phthalate	490 ~~52~~	JB u KH 8/1/96
117-84-0	Di-n-octylphthalate	490	U
205-99-2	Benzo(b)fluoranthene	490	U
207-08-9	Benzo(k)fluoranthene	490	U
50-32-8	Benzo(a)pyrene	490	U
193-39-5	Indeno(1,2,3-cd)pyrene	25	J
53-70-3	Dibenzo(a,h)anthracene	490	U
191-24-2	Benzo(g,h,i)perylene	41	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EABF2

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3938.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/04/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

Number TICs found: 12

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	6.060	11000	A NJB	u
2.		Unknown	6.546	150	JB	u
3.		Unknown	6.981	1800	JB	u
4.	123-54-6	2,4-Pentanedione	7.134	830	NJ	
5.		Unknown	7.308	290	JB	u
6.		Unknown	7.819	950	JB	u
7.		Unknown	8.100	340	J	
8.		Unknown	10.080	270	JB	u
9.	106-31-0	Butanoic acid, anhydride	13.660	190	NJ	
10.	544-63-8	Tetradecanoic acid	16.066	460	NJ	
11.		Unknown	17.220	130	J	
12.	7390-81-0	Oxirane, hexadecyl-	23.306	280	NJ	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4002.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460	U
111-44-4	bis(-2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethyphenol	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
111-91-1	bis(-2-Chloroethoxy)methane	460	U
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorphenol	1200	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
208-96-8	Acenaphthylene	35	J
606-20-2	2,6-Dinitrotoluene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4002.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	30	J
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	270	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	100	J
218-01-9	Chrysene	180	J
117-81-7	bis(2-Ethylhexyl)phthalate	460	U
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	180	J
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	170	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EABF3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4002.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	6.910	30000	A NJ
2.	Unknown	7.040	200	JB
3.	Unknown	7.828	1300	JB
4.	Unknown	8.160	240	J
5.	Unknown	8.632	150	J
6.	Unknown	8.670	140	J
7.	Unknown	8.719	140	J
8.	Unknown	9.268	220	J
9.	Unknown	11.008	170	J
10. 29052-09-3	Butyric acid, ester with m-h	14.642	140	NJ
11.	Unknown	15.408	280	J
12. 104-40-5	4-Nonylphenol	17.394	190	NJ
13. 505-32-8	Isophytol	18.099	190	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPA9

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3967.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(-2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethyphenol	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
111-91-1	bis(-2-Chloroethoxy)methane	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorphenol	1100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	39	J
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPA9

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3967.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	30	J
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	53	J
129-00-0	Pyrene	280	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	55	J
218-01-9	Chrysene	130	J
117-81-7	bis(2-Ethylhexyl)phthalate	430 ~~140~~	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	210	J

KM

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAPA9

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3967.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 18

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.790	15000	A NJ
2.		Unknown	6.010	4800	J
3.		Unknown	6.757	2500	J
4.		Unknown	7.083	180	J
5.		Unknown	7.214	140	JB
6.		Unknown	7.589	680	J
7.		Unknown	7.867	190	JB
8.		Unknown	8.226	160	J
9.		Unknown	8.728	160	J
10.	126-39-6	Unknown	8.799	1400	J
11.	111-21-7	Ethanol, 2,2'-[1,2-ethanediy	9.311	220	NJ
12.		Unknown	9.496	100	J
13.		Unknown	9.534	110	J
14.	17429-04-8	Unknown	9.851	430	J
15.		Unknown	12.726	130	J
16.	128-37-0	Butylated Hydroxytoluene	13.792	180	NJ
17.		Unknown	14.258	160	J
18.		Unknown	23.171	2000	J
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3973.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	39	J
129-00-0	Pyrene	39	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	U
117-84-0	Di-n-octylphthalate	96	J
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPB0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3968.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(-2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethyphenol	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
111-91-1	bis(-2-Chloroethoxy)methane	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorphenol	1100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	24	J
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPB0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3968.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	52	J
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	46	J
129-00-0	Pyrene	140	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	40	J
218-01-9	Chrysene	72	J
117-81-7	bis(2-Ethylhexyl)phthalate	430 ~~58~~	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	130	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAPB0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3968.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 17

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.800	12000	A NJ
2.		Unknown	6.342	220	J
3.		Unknown	6.683	160	J
4.		Unknown	6.771	3200	J
5.		Unknown	6.914	320	JB u'
6.		Unknown	7.090	320	J
7.		Unknown	7.597	1200	J
8.		Unknown	7.867	270	JB u
9.		Unknown	8.353	150	J "
10.		Unknown	9.837	420	J
11.	7492-70-8	Butanoic acid, 2-butoxy-1-me	13.393	160	NJ
12.		Unknown	15.385	220	J
13.		Unknown	15.584	270	J
14.	27193-86-8	Phenol, dodecyl-	15.673	780	NJ
15.		Unknown	15.894	1600	J
16.	104-40-5	4-Nonylphenol	16.011	1200	NJ
17.		Unknown	16.172	360	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3973.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460	U
111-44-4	bis(-2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethyphenol	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
111-91-1	bis(-2-Chloroethoxy)methane	460	U
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorphenol	1200	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
208-96-8	Acenaphthylene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH3

Lab Name: ATAS, INC. Contract: 68-D5-0018

ab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3973.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 28 decanted: (Y/N) N Date Extracted:11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.810	20000	A NJ
2.	Unknown	5.997	390	J
3.	Unknown	6.063	130	J
4.	Unknown	6.307	160	NJ
5.	Unknown	6.666	110	J
6.	Unknown	6.747	2700	J
7.	Unknown	6.910	130	JB
8.	Unknown	7.084	570	J
9.	Unknown	7.171	110	J
10.	Unknown	7.595	940	J
11.	Unknown	7.807	110	JB
12.	Unknown	7.867	320	JB
13.	Unknown	9.838	290	J
14.	Unknown	20.989	720	J
15. 7390-81-0	Oxirane, hexadecyl-	22.720	200	NJ
16. 7320-37-8	Oxirane, tetradecyl-	25.074	210	NJ
17.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH4

Lab Name: ATAS, INC. Contract: 68-D5-0018

ab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3974.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(-2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethyphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	27	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
111-91-1	bis(-2-Chloroethoxy)methane	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	24	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorphenol	990	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	37	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	990	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH4

Lab Name: ATAS, INC. Contract: 68-D5-0018

ab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3974.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990	U
100-02-7	4-Nitrophenol	990	U
132-64-9	Dibenzofuran	20	J
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	990	U
534-52-1	4,6-Dinitro-2-methylphenol	990	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	990	U
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	23	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	260	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	110	J
218-01-9	Chrysene	230	J
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	58	J
205-99-2	Benzo(b)fluoranthene	110	J
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	180	J
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	330	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH4

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3974.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	6.040	47000	A NJ
2.	Unknown	6.333	170	J
3.	Unknown	6.677	110	J
4.	Unknown	6.765	2500	J
5.	Unknown	6.909	300	JB u
6.	Unknown	7.085	310	J
7.	Unknown	7.596	1100	J
8.	Unknown	7.806	120	JB u
9.	Unknown	7.867	300	JB u
10.	Unknown	8.364	150	J
11.	Unknown	9.832	360	J
12.	Unknown	13.389	98	J
13.	Unknown	18.086	170	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH5

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3975.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(-2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethyphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	24	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
111-91-1	bis(-2-Chloroethoxy)methane	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	22	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorphenol	980	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	33	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH5

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3975.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	20	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	210	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	91	J
218-01-9	Chrysene	180	J
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	130	J
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	120	J
193-39-5	Indeno(1,2,3-cd)pyrene	150	J
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	250	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH5

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3975.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

Number TICs found: 12

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.790	10000	A NJ
2.		Unknown	6.060	83	J
3.		Unknown	6.300	100	J
4.		Unknown	6.658	80	J
5.		Unknown	6.740	1900	J
6.		Unknown	6.903	110	JB u
7.		Unknown	7.077	170	J
8.		Unknown	7.588	830	J
9.		Unknown	7.860	210	JB u'
10.		Unknown	9.834	220	J "
11.		Unknown	13.387	91	J
12.	56030-56-9	1,1'-Biphenyl, 2,2',3,4,4',6	18.081	250	NJ
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH6

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4010.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440	U
111-44-4	bis(-2-Chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethyphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
111-91-1	bis(-2-Chloroethoxy)methane	440	U
59-50-7	4-Chloro-3-Methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorphenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH6

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4010.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	74	J
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	90	J
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH6

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4010.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 13

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	6.930	47000	A NJ
2.		Unknown	7.030	170	JB u
3.		Unknown	7.171	230	J
4.		Unknown	7.372	100	JB u
5.		Unknown	7.827	1500	JB u
6.		Unknown	8.158	760	J
7.		Unknown	8.663	140	J
8.		Unknown	8.717	170	J
9.		Unknown	8.960	150	J
10.		Unknown	11.006	170	J
11.		Unknown	14.633	99	J
12.		Unknown	17.200	540	J
13.		Unknown	17.542	170	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH7

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4027.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/18/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(-2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethyphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
111-91-1	bis(-2-Chloroethoxy)methane	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorphenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH7

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4027.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/18/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	32	J
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH7

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA4027.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	6.850	17000	A NJ
2.	Unknown	7.042	120	JB u
3.	Unknown	7.824	940	JB u
4.	Unknown	8.160	150	J
5.	Unknown	8.638	98	J
6.	Unknown	8.670	130	J
7.	Unknown	8.719	100	J
8.	Unknown	11.016	96	J
9.	Unknown	14.990	85	J
10.	Unknown	15.104	240	J
11.	Unknown	15.289	110	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH8

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3969.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(-2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethyphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	30	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
111-91-1	bis(-2-Chloroethoxy)methane	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	32	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorphenol	960	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	340	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	960	U
83-32-9	Acenaphthene	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH8

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3969.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	960	U
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	29	J
100-01-6	4-Nitroaniline	960	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	220	J
120-12-7	Anthracene	74	J
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	400	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	790	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	64	J
205-99-2	Benzo(b)fluoranthene	600	
207-08-9	Benzo(k)fluoranthene	900	
50-32-8	Benzo(a)pyrene	1300	
193-39-5	Indeno(1,2,3-cd)pyrene	980	
53-70-3	Dibenzo(a,h)anthracene	330	J
191-24-2	Benzo(g,h,i)perylene	1700	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARH8

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3969.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.830	16000	A NJ
2.	Unknown	6.310	170	J
3.	Unknown	6.750	2200	J
4. 123-54-6	2,4-Pentanedione	6.904	160	NJ
5.	Unknown	7.083	270	J
6.	Unknown	7.208	130	JB u
7.	Unknown	7.595	900	J
8.	Unknown	7.807	140	JB u
9.	Unknown	8.356	130	J
10.	Unknown	9.840	250	J
11.	Unknown	13.392	130	J
12. 832-71-3	Phenanthrene, 3-methyl-	16.022	150	NJ
13.	Unknown	18.093	550	J
14. 52663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5	18.350	230	NJ
15. 3353-12-6	Pyrene, 4-methyl-	18.451	190	NJ
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3970.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 35 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	510	U
111-44-4	bis(-2-Chloroethyl)Ether	510	U
95-57-8	2-Chlorophenol	510	U
541-73-1	1,3-Dichlorobenzene	510	U
106-46-7	1,4-Dichlorobenzene	510	U
95-50-1	1,2-Dichlorobenzene	510	U
95-48-7	2-Methylphenol	510	U
108-60-1	2,2'-oxybis(1-Chloropropane)	510	U
106-44-5	4-Methylphenol	510	U
621-64-7	N-Nitroso-di-n-propylamine	510	U
67-72-1	Hexachloroethane	510	U
98-95-3	Nitrobenzene	510	U
78-59-1	Isophorone	510	U
88-75-5	2-Nitrophenol	510	U
105-67-9	2,4-Dimethyphenol	510	U
120-83-2	2,4-Dichlorophenol	510	U
120-82-1	1,2,4-Trichlorobenzene	510	U
91-20-3	Naphthalene	510	U
106-47-8	4-Chloroaniline	510	U
87-68-3	Hexachlorobutadiene	510	U
111-91-1	bis(-2-Chloroethoxy)methane	510	U
59-50-7	4-Chloro-3-Methylphenol	510	U
91-57-6	2-Methylnaphthalene	510	U
77-47-4	Hexachlorocyclopentadiene	510	U
88-06-2	2,4,6-Trichlorophenol	510	U
95-95-4	2,4,5-Trichlorphenol	1300	U
91-58-7	2-Chloronaphthalene	510	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	510	U
208-96-8	Acenaphthylene	510	U
606-20-2	2,6-Dinitrotoluene	510	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	510	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3970.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 35 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	510	U
121-14-2	2,4-Dinitrotoluene	510	U
84-66-2	Diethylphthalate	510	U
7005-72-3	4-Chlorophenyl-phenylether	510	U
86-73-7	Fluorene	510	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-nitrosodiphenylamine (1)	510	U
101-55-3	4-Bromophenyl-phenylether	510	U
118-74-1	Hexachlorobenzene	510	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	510	U
120-12-7	Anthracene	510	U
86-74-8	Carbazole	510	U
84-74-2	Di-n-butylphthalate	510	U
206-44-0	Fluoranthene	510	U
129-00-0	Pyrene	510	U
85-68-7	Butylbenzylphthalate	510	U
91-94-1	3,3'-Dichlorobenzidine	510	U
56-55-3	Benzo(a)anthracene	510	U
218-01-9	Chrysene	510	U
117-81-7	bis(2-Ethylhexyl)phthalate	510	U
117-84-0	Di-n-octylphthalate	87	J
205-99-2	Benzo(b)fluoranthene	510	U
207-08-9	Benzo(k)fluoranthene	510	U
50-32-8	Benzo(a)pyrene	510	U
193-39-5	Indeno(1,2,3-cd)pyrene	510	U
53-70-3	Dibenzo(a,h)anthracene	510	U
191-24-2	Benzo(g,h,i)perylene	510	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARJ0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3970.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 35 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.800	15000	A NJ
2.	Unknown	6.309	170	J
3.	Unknown	6.668	120	J
4.	Unknown	6.749	2700	J
5.	Unknown	7.086	900	J
6.	Unknown	7.206	110	JB u
7.	Unknown	7.586	860	J
8.	Unknown	7.804	120	JB u
9. 563-80-4	2-Butanone, 3-methyl-	7.864	300	NJ
10.	Unknown	8.359	180	J
11.	Unknown	9.836	300	J
12.	Unknown	13.399	170	J
13. 502-69-2	2-Pentadecanone, 6,10,14-tri	15.085	120	NJ
14. 150-86-7	Phytol	16.870	200	NJ
15. 6006-01-5	3,7,11-Tridecatrienenitrile,	21.012	2200	NJ
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3971.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	480	U
111-44-4	bis(-2-Chloroethyl)Ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethyphenol	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
111-91-1	bis(-2-Chloroethoxy)methane	480	U
59-50-7	4-Chloro-3-Methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorphenol	1200	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3971.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(UL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	bis(2-Ethylhexyl)phthalate	480	U
117-84-0	Di-n-octylphthalate	220	J
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EARJ1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA3971.D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/30/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/07/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 15

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	5.790	14000	A NJ
2.		Unknown	6.064	110	J
3.		Unknown	6.314	210	J
4.		Unknown	6.667	130	J
5.		Unknown	6.754	3200	J
6.		Unknown	6.912	98	JB u
7.		Unknown	7.086	480	J
8.		Unknown	7.591	960	J
9.		Unknown	7.809	110	JB u
10.		Unknown	7.869	410	JB u
11.		Unknown	9.836	370	J
12.		Unknown	13.395	150	J
13.	102608-53-	3,7,11,15-Tetramethyl-2-hexa	15.307	99	NJ
14.	55191-59-8	Ethanol, 2-(4-phenoxyphenoxy	19.090	120	NJ
15.	638-66-4	Octadecanal	20.983	300	NJ
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000680

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK5S	88	77	66	68			0
02	EARJ0	68	56	54	52			0
03	EARJ1	83	68	54	58			0
04	EABF2	44	30	34	38			0
05	EABF2MS	84	69	67	74			0
06	EABF2MSD	117	96	92	102			0
07	EABF3	82	71	59	86			0
08	EAPA9	72	62	46	66			0
09	EAPB0	79	64	54	68			0
10	EAPB0DL	93	68	64	78			0
11	EARH8	97	78	85	118			0
12	EARH8DL	75	62	133	161D			0
13	EABF1	101	86	67	77			0
14	EARH4	89	76	67	86			0
15	EARH4DL	94	77	86	103			0
16	EARH5	96	78	72	83			0
17	EARH7	91	74	56	54			0
18	EARH3	108	85	152*	147			1
19	EARH6	101	80	69	70			0
20	EABF3DL	88	75	71	89			0
21	EAPA9DL	75	69	60	82			0
22	EARH5DL	90	73	70	84			0
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix Spike - EPA Sample NO.: EABF2

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	24.9	0	17.9	72	46-127
Heptachlor	24.9	0	18.4	74	35-130
Aldrin	24.9	0	18.9	76	34-132
Dieldrin	49.8	0	42.2	85	31-134
Endrin	49.8	0	46.4	93	42-139
4,4'-DDT	49.8	0	47.5	96	23-[illegible]4

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	24.9	26.9	108	40	50	46-127
Heptachlor	24.9	27.6	111	40 *	31	35-130
Aldrin	24.9	29.0	117	42	43	34-132
Dieldrin	49.8	63.2	127	40 *	38	31-134
Endrin	49.8	68.4	137	38	45	42-139
4,4'-DDT	49.8	69.8	140 *	37	50	23-134

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 2 out of 6 outside limits
Spike Recovery: 1 out of 12 outside limits

Comments:

000931

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK5S

Lab Name: ATAS,INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Lab Sample ID: 120195-01 Lab File ID: 5_1839

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 12/01/95

Date Analyzed (1): 12/04/95 Date Analyzed (2): 12/04/95

Time Analyzed (1): 1741 Time Analyzed (2): 1741

Instrument ID (1): HB_05A Instrument ID (2): HB_05B

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EARJ0	14387.08	12/04/95	12/04/95
02	EARJ1	14387.09	12/04/95	12/04/95
03	EABF2	14387.01	12/11/95	12/11/95
04	EABF2MS	14387.02	12/11/95	12/11/95
05	EABF2MSD	14387.03	12/11/95	12/11/95
06	EABF3	14387.04	12/11/95	12/11/95
07	EAPA9	14387.05	12/11/95	12/11/95
08	EAPB0	14387.06	12/11/95	12/11/95
09	EAPB0DL	14387.06	12/11/95	12/11/95
10	EARH8	14387.07	12/11/95	12/11/95
11	EARH8DL	14387.07DL	12/11/95	12/11/95
12	EABF1	14387.10	12/11/95	12/11/95
13	EARH4	14387.12	12/11/95	12/11/95
14	EARH4DL	14387.12	12/11/95	12/11/95
15	EARH5	14387.13	12/11/95	12/11/95
16	EARH7	14387.15	12/11/95	12/11/95
17	EARH3	14387.11	12/19/95	12/19/95
18	EARH6	14387.14	12/19/95	12/19/95
19	EABF3DL	14387.04	12/19/95	12/19/95
20	EAPA9DL	14387.05	12/19/95	12/19/95
21	EARH5DL	14387.13	12/19/95	12/19/95
22				
23				
24				
25				
26				

Comments:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK5S

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 120195-01

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/04/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	0.12	PJ
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	0.36	PJ
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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.10

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

% Moisture: 34 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.0	U
72-55-9	4,4'-DDE	5.0	U
72-20-8	Endrin	5.0	U
33213-65-9	Endosulfan II	5.0	U
72-54-8	4,4'-DDD	5.0	U
1031-07-8	Endosulfan sulfate	5.0	U
50-29-3	4,4'-DDT	5.0	U
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.0	U
7421-93-4	Endrin aldehyde	5.0	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	50	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	50	U
53469-21-9	Aroclor-1242	50	U
12672-29-6	Aroclor-1248	50	U
11097-69-1	Aroclor-1254	50	U
11096-82-5	Aroclor-1260	270	

000934

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF2

ab Name: ATAS,INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.01

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

% Moisture: 33 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.9	U
72-55-9	4,4'-DDE	4.9	U
72-20-8	Endrin	4.9	U
33213-65-9	Endosulfan II	4.9	U
72-54-8	4,4'-DDD	4.9	U
1031-07-8	Endosulfan sulfate	4.9	U
50-29-3	4,4'-DDT	4.9	U
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.9	U
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	49	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	88	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.04

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

% Moisture: 28 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	2800	E

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EABF3DL

ab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.04

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

% Moisture: 28 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/95

Injection Volume: 1.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.4	U
319-85-7	beta-BHC	9.4	U
319-86-8	delta-BHC	9.4	U
58-89-9	gamma-BHC (Lindane)	9.4	U
76-44-8	Heptachlor	9.4	U
309-00-2	Aldrin	9.4	U
1024-57-3	Heptachlor epoxide	7.2	DPJ
959-98-8	Endosulfan I	9.4	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	94	U
53494-70-5	Endrin ketone	18	U
7421-93-4	Endrin aldehyde	18	U
5103-71-9	alpha-Chlordane	9.4	U
5103-74-2	gamma-Chlordane	9.4	U
8001-35-2	Toxaphene	940	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	3300	D

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPA9

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.05

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

% Moisture: 24 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	2400	E

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPA9DL

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.05

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

% Moisture: 24 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/95

Injection Volume: 1.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.9	U
319-85-7	beta-BHC	8.9	U
319-86-8	delta-BHC	8.9	U
58-89-9	gamma-BHC (Lindane)	8.9	U
76-44-8	Heptachlor	8.9	U
309-00-2	Aldrin	8.9	U
1024-57-3	Heptachlor epoxide	6.9	DJ
959-98-8	Endosulfan I	8.9	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	89	U
53494-70-5	Endrin ketone	17	U
7421-93-4	Endrin aldehyde	17	U
5103-71-9	alpha-Chlordane	8.9	U
5103-74-2	gamma-Chlordane	8.9	U
8001-35-2	Toxaphene	890	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	350	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	170	U
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	2900	D

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPB0

ab Name: ATAS,INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.06

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

% Moisture: 24 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	2000	E

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAPB0DL

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.06

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

% Moisture: 24 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.5	U
319-85-7	beta-BHC	4.5	U
319-86-8	delta-BHC	4.5	U
58-89-9	gamma-BHC (Lindane)	4.5	U
76-44-8	Heptachlor	4.5	U
309-00-2	Aldrin	4.5	U
1024-57-3	Heptachlor epoxide	4.5	U
959-98-8	Endosulfan I	4.5	U
60-57-1	Dieldrin	8.7	U
72-55-9	4,4'-DDE	8.7	U
72-20-8	Endrin	8.7	U
33213-65-9	Endosulfan II	8.7	U
72-54-8	4,4'-DDD	8.7	U
1031-07-8	Endosulfan sulfate	8.7	U
50-29-3	4,4'-DDT	8.7	U
72-43-5	Methoxychlor	45	U
53494-70-5	Endrin ketone	8.7	U
7421-93-4	Endrin aldehyde	8.7	U
5103-71-9	alpha-Chlordane	4.5	U
5103-74-2	gamma-Chlordane	4.5	U
8001-35-2	Toxaphene	450	U
12674-11-2	Aroclor-1016	87	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	87	U
53469-21-9	Aroclor-1242	87	U
12672-29-6	Aroclor-1248	87	U
11097-69-1	Aroclor-1254	87	U
11096-82-5	Aroclor-1260	2200	D

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH3

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.11

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

% Moisture: 28 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	0.40	PJ
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	84	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH4

ab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.12

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

% Moisture: 16 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH. 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	1300	E

001226

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH4DL

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.12

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

% Moisture: 16 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	4.0	U
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	4.0	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin ketone	7.8	U
7421-93-4	Endrin aldehyde	7.8	U
5103-71-9	alpha-Chlordane	4.0	U
5103-74-2	gamma-Chlordane	4.0	U
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	78	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	78	U
53469-21-9	Aroclor-1242	78	U
12672-29-6	Aroclor-1248	78	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	1400	D

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH5

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.13

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

% Moisture: 15 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	1100	E

001293

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH5DL

ab Name: ATAS,INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.13

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

% Moisture: 15 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/95

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	4.0	U
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	4.0	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin ketone	7.8	U
7421-93-4	Endrin aldehyde	7.8	U
5103-71-9	alpha-Chlordane	4.0	U
5103-74-2	gamma-Chlordane	4.0	U
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	78	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	78	U
53469-21-9	Aroclor-1242	78	U
12672-29-6	Aroclor-1248	78	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	1100	D

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH6

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.14

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

% Moisture: 25 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH7

ab Name: ATAS,INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.15

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

% Moisture: 17 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	760	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH8

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.07

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

% Moisture: 14 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	8500	E

001412

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARH8DL

ab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.07DL

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

% Moisture: 14 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/11/95

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	38	U
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	38	U
33213-65-9	Endosulfan II	38	U
72-54-8	4,4'-DDD	38	U
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	38	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	38	U
7421-93-4	Endrin aldehyde	38	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	780	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	9400	D

001435

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ0

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.08

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

% Moisture: 35 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/04/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.1	U
72-55-9	4,4'-DDE	5.1	U
72-20-8	Endrin	5.1	U
33213-65-9	Endosulfan II	5.1	U
72-54-8	4,4'-DDD	5.1	U
1031-07-8	Endosulfan sulfate	5.1	U
50-29-3	4,4'-DDT	1.6	PJ
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.1	U
7421-93-4	Endrin aldehyde	5.1	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	51	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	51	U
53469-21-9	Aroclor-1242	51	U
12672-29-6	Aroclor-1248	51	U
11097-69-1	Aroclor-1254	51	U
11096-82-5	Aroclor-1260	51	U

001463

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EARJ1

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24257 SAS No.: SDG No.: EABF1

Matrix: (soil/water) SOIL Lab Sample ID: 14387.09

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

% Moisture: 31 decanted: (Y/N) N Date Received: 11/29/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/01/95

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/04/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
319-84-6	alpha-BHC	2.5	U	
319-85-7	beta-BHC	2.5	U	
319-86-8	delta-BHC	2.5	U	
58-89-9	gamma-BHC (Lindane)	2.5	U	
76-44-8	Heptachlor	2.5 ~~0.59~~	JB	u KM 01/12
309-00-2	Aldrin	0.15	PJ	
1024-57-3	Heptachlor epoxide	2.5	U	
959-98-8	Endosulfan I	2.5	U	
60-57-1	Dieldrin	4.8	U	
72-55-9	4,4'-DDE	4.8	U	
72-20-8	Endrin	4.8	U	
33213-65-9	Endosulfan II	4.8	U	
72-54-8	4,4'-DDD	4.8	U	
1031-07-8	Endosulfan sulfate	4.8	U	
50-29-3	4,4'-DDT	1.0	J	
72-43-5	Methoxychlor	25 ~~1.0~~	PJB	u KM 01/12
53494-70-5	Endrin ketone	4.8	U	
7421-93-4	Endrin aldehyde	4.8	U	
5103-71-9	alpha-Chlordane	2.5	U	
5103-74-2	gamma-Chlordane	2.5	U	
8001-35-2	Toxaphene	250	U	
12674-11-2	Aroclor-1016	48	U	
11104-28-2	Aroclor-1221	97	U	
11141-16-5	Aroclor-1232	48	U	
53469-21-9	Aroclor-1242	48	U	
12672-29-6	Aroclor-1248	48	U	
11097-69-1	Aroclor-1254	48	U	
11096-82-5	Aroclor-1260	48	U	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 01-16-96

SUBJECT: Review of Region V CLP Data Received for Review on Jan 10, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) L. Finkelberg for S. Ostrodka
Superfund Technical Support Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ILADA Waste (IL)

CASE NUMBER: 24257 SDG NUMBER: MEAFC1

Number and Type of Samples: 13 (Soil)

Sample Numbers: MEAFC1-6, 8-9 MEAFD0-4

Laboratory: Chesty Hrs. for Review: 5.5 +0.5 T.R.

Following are our findings:

The matrix spike recoveries for Sb and Mn are out of control. The CCB and ICB contain contamination.

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg
01-16-96

cc: Regional TPO
Brian Freeman
HSMC-5J

RECEIVED
JAN 25 1996
IEPA/DLPC

NARRATIVE

SITE : ILADA WASTE (IL) CASE: 24257
CONTRACTOR: CHESTX SDG : MEAFC1

The laboratory's portion of this case contains thirteen low level soil samples analyzed for total metals and cyanide. Below is a summary of the out of control audits and their possible effects on the data for this case.

EVIDENTIAL AUDIT: All raw data, forms, traffic report/chain of custody form, airbill, DC-1 form (log-in sheet), DC-2 form (inventory sheet) and sample tags are originals and are present in the order indicated on the DC-2 form.

ICP ANALYSES: The matrix spike recovery for Sb (65.3%) is out of control. All Sb results are estimated (UJ) due to a possible elevated detection limit.

The matrix spike recovery for Mn (250.6%) is out of control. All Mn results are estimated (J) due to high bias.

The CCB was found to contain Be (1.3 ug/L). All Be results are estimated (J) due to contamination.

GFAA ANALYSES: The duplicate audit for Pb (20.8 RPD) was flagged by the laboratory; however, the technical criterion (35% RPD) for soil samples was not exceeded. All Pb results are acceptable.

The Se results for MEAFC2, MEAFC3, MEAFC4, MEAFC6, MEAFC9, MEAFD0 and MEAFD1 were flagged (W) by the laboratory and were estimated (UJ) due to interference. The Se result for MEAFD2 was flagged (W) by the laboratory and was estimated (J) due to interference.

The Tl results for MEAFC6 and MEAFC8 were flagged (W) by the laboratory and were estimated (UJ) due to interference.

OTHER QUALIFIERS: All Hg results are acceptable.

The ICB was found to contain CN (3.0 ug/L). The CN results for MEAFC1, MEAFC2, MEAFC5, MEAFC6, MEAFC8, MEAFC9, MEAFD2 and MEAFD3 are estimated (J) due to contamination.

Reviewed by: Bai Yuen, Lockheed/ESAT
Date: 1-12-96

EAT-5-041.1

DATA QUALIFIER DEFINITIONS

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

U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J Indicates the associated value is an estimated quantity.

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

UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

M Indicates duplicate injection precision is not met.

N Indictaes the spike sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

L Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: _____ SDG No.:MEAFC1

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
MEAFC1	H5024201
MEAFC2	H5024202
MEAFC3	H5024203
MEAFC4	H5024204
MEAFC5	H5024205
MEAFC6	H5024206
MEAFC8	H5024208
MEAFC9	H5024209
MEAFD0	H5024210
MEAFD1	H5024211
MEAFD1D	H5024212
MEAFD1S	H5024213
MEAFD2	H5024214
MEAFD3	H5024215
MEAFD4	H5024216

RECEIVED
JAN 10 1996
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

W. e 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 floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mary F Cruz Name: Mary F. Cruz

Date: December 29, 1995 Title: CLP Project Manager

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC1

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL_ Lab Sample ID: H5024201

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _70.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6990			P
7440-36-0	Antimony	8.2	U	N	P
7440-38-2	Arsenic	2.4	B	S	F
7440-39-3	Barium	164			P
7440-41-7	Beryllium	0.44	B		P
7440-43-9	Cadmium	1.7			P
7440-70-2	Calcium	5370			P
7440-47-3	Chromium	11.8			P
7440-48-4	Cobalt	6.6	B		P
7440-50-8	Copper	12.9			P
7439-89-6	Iron	10600			P
7439-92-1	Lead	44.6		*	F
7439-95-4	Magnesium	1520			P
7439-96-5	Manganese	1100		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	12.0			P
7440-09-7	Potassium	366	B		P
7782-49-2	Selenium	0.76	B		F
7440-22-4	Silver	0.71	U		P
7440-23-5	Sodium	34.5	B		P
7440-28-0	Thallium	0.42	U		F
7440-62-2	Vanadium	19.9			P
7440-66-6	Zinc	96.0			P
	Cyanide	0.17	B		AS

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC2

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

Matrix (soil/water): SOIL Lab Sample ID: H5024202

Level (low/med): LOW Date Received: 12/13/95

% Solids: 84.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8700			P
7440-36-0	Antimony	6.8	U	N	P
7440-38-2	Arsenic	5.7			F
7440-39-3	Barium	139			P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium	0.97	U		P
7440-70-2	Calcium	23100			P
7440-47-3	Chromium	16.4			P
7440-48-4	Cobalt	8.1	B		P
7440-50-8	Copper	12.4			P
7439-89-6	Iron	14700			P
7439-92-1	Lead	92.4		*	F
7439-95-4	Magnesium	3390			P
7439-96-5	Manganese	642		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	19.4			P
7440-09-7	Potassium	542	B		P
7782-49-2	Selenium	0.47	U	W	F
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	124	B		P
7440-28-0	Thallium	0.39	B		F
7440-62-2	Vanadium	26.4			P
7440-66-6	Zinc	70.1			P
	Cyanide	0.08	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC3

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL_ Lab Sample ID: H5024203

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7930			P
7440-36-0	Antimony	6.8	U	N	P
7440-38-2	Arsenic	5.2			F
7440-39-3	Barium	105			P
7440-41-7	Beryllium	0.42	B		P
7440-43-9	Cadmium	0.97	U		P
7440-70-2	Calcium	35800			P
7440-47-3	Chromium	14.3			P
7440-48-4	Cobalt	6.6	B		P
7440-50-8	Copper	11.5			P
7439-89-6	Iron	13100			P
7439-92-1	Lead	78.1		*	F
7439-95-4	Magnesium	4530			P
7439-96-5	Manganese	425		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	15.2			P
7440-09-7	Potassium	480	B		P
7782-49-2	Selenium	0.47	U	W	F
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	118	B		P
7440-28-0	Thallium	0.35	U		F
7440-62-2	Vanadium	24.4			P
7440-66-6	Zinc	70.8			P
	Cyanide	0.06	U		AS

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC4

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

Matrix (soil/water): SOIL Lab Sample ID: H5024204

Level (low/med): LOW Date Received: 12/13/95

% Solids: 72.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8810			P
7440-36-0	Antimony	8.0	U	N	P
7440-38-2	Arsenic	6.3			F
7440-39-3	Barium	103			P
7440-41-7	Beryllium	0.45	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	2680			P
7440-47-3	Chromium	14.0			P
7440-48-4	Cobalt	7.6	B		P
7440-50-8	Copper	8.9			P
7439-89-6	Iron	12200			P
7439-92-1	Lead	12.7		*	F
7439-95-4	Magnesium	2250			P
7439-96-5	Manganese	207		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	15.8			P
7440-09-7	Potassium	464	B		P
7782-49-2	Selenium	0.55	U	W	F
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	313	B		P
7440-28-0	Thallium	0.41	U		F
7440-62-2	Vanadium	27.5			P
7440-66-6	Zinc	43.4			P
	Cyanide	0.07	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC5

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

Matrix (soil/water): SOIL Lab Sample ID: H5024205

Level (low/med): LOW Date Received: 12/13/95

% Solids: 82.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8830			P
7440-36-0	Antimony	7.0	U	N	P
7440-38-2	Arsenic	5.1			F
7440-39-3	Barium	81.7			P
7440-41-7	Beryllium	0.50	B		P
7440-43-9	Cadmium	1.00	U		P
7440-70-2	Calcium	1510			P
7440-47-3	Chromium	13.3			P
7440-48-4	Cobalt	8.5	B		P
7440-50-8	Copper	9.9			P
7439-89-6	Iron	13400			P
7439-92-1	Lead	13.0		S*	F
7439-95-4	Magnesium	1810			P
7439-96-5	Manganese	511		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	11.9			P
7440-09-7	Potassium	450	B		P
7782-49-2	Selenium	0.49	U		F
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	28.7	B		P
7440-28-0	Thallium	0.36	U		F
7440-62-2	Vanadium	25.8			P
7440-66-6	Zinc	70.0			P
	Cyanide	0.06	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC6

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

Matrix (soil/water): SOIL Lab Sample ID: H5024206

Level (low/med): LOW Date Received: 12/13/95

% Solids: 86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7500			P
7440-36-0	Antimony	6.7	U	N	P
7440-38-2	Arsenic	4.5			F
7440-39-3	Barium	96.9			P
7440-41-7	Beryllium	0.39	B		P
7440-43-9	Cadmium	0.95	U		P
7440-70-2	Calcium	3180			P
7440-47-3	Chromium	15.1			P
7440-48-4	Cobalt	5.9	B		P
7440-50-8	Copper	10.5			P
7439-89-6	Iron	11500			P
7439-92-1	Lead	50.6		*	F
7439-95-4	Magnesium	1670			P
7439-96-5	Manganese	445		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	10.9			P
7440-09-7	Potassium	303	B		P
7782-49-2	Selenium	0.46	U	W	F
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	33.7	B		P
7440-28-0	Thallium	0.35	U	W	F
7440-62-2	Vanadium	23.3			P
7440-66-6	Zinc	76.2			P
	Cyanide	0.11	B		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC8

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

Matrix (soil/water): SOIL Lab Sample ID: H5024208

Level (low/med): LOW Date Received: 12/13/95

% Solids: 73.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900			P
7440-36-0	Antimony	7.8	U	N	P
7440-38-2	Arsenic	9.0			F
7440-39-3	Barium	97.9			P
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	40300			P
7440-47-3	Chromium	20.4			P
7440-48-4	Cobalt	12.2	B		P
7440-50-8	Copper	10.4			P
7439-89-6	Iron	22800			P
7439-92-1	Lead	11.6		*	F
7439-95-4	Magnesium	5030			P
7439-96-5	Manganese	375		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	26.9			P
7440-09-7	Potassium	1760			P
7782-49-2	Selenium	0.54	U		F
7440-22-4	Silver	0.68	U		P
7440-23-5	Sodium	156	B		P
7440-28-0	Thallium	0.41	U	W	F
7440-62-2	Vanadium	27.6			P
7440-66-6	Zinc	76.4			P
	Cyanide	3.5			AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFC9

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL_ Lab Sample ID: H5024209

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _71.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8140			P
7440-36-0	Antimony	8.0	U	N	P
7440-38-2	Arsenic	5.6			F
7440-39-3	Barium	98.9			P
7440-41-7	Beryllium	0.52	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	4940			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	9.6			P
7439-89-6	Iron	13300			P
7439-92-1	Lead	14.4		*	F
7439-95-4	Magnesium	1930			P
7439-96-5	Manganese	324		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	10.6	B		P
7440-09-7	Potassium	419	B		P
7782-49-2	Selenium	0.56	U	W	F
7440-22-4	Silver	0.70	U		P
7440-23-5	Sodium	132	B		P
7440-28-0	Thallium	0.54	B		F
7440-62-2	Vanadium	23.6			P
7440-66-6	Zinc	44.2			P
	Cyanide	0.73			AS

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFD0

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL_ Lab Sample ID: H5024210

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _55.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8070			P
7440-36-0	Antimony	10.5	U	N	P
7440-38-2	Arsenic	6.5			F
7440-39-3	Barium	110			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium	24100			P
7440-47-3	Chromium	12.9			P
7440-48-4	Cobalt	9.2	B		P
7440-50-8	Copper	9.8			P
7439-89-6	Iron	12500			P
7439-92-1	Lead	22.1		S*	F
7439-95-4	Magnesium	2270			P
7439-96-5	Manganese	740		N	P
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	16.4			P
7440-09-7	Potassium	419	B		P
7782-49-2	Selenium	0.73	U	W	F
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	122	B		P
7440-28-0	Thallium	0.54	U		F
7440-62-2	Vanadium	22.6			P
7440-66-6	Zinc	65.0			P
	Cyanide	0.09	U		AS

Color Before: GREY Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFD1

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

Matrix (soil/water): SOIL Lab Sample ID: H5024211

Level (low/med): LOW Date Received: 12/13/95

% Solids: 72.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6400			P
7440-36-0	Antimony	8.0	U	N	P
7440-38-2	Arsenic	5.0			F
7440-39-3	Barium	106			P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	4780			P
7440-47-3	Chromium	9.4			P
7440-48-4	Cobalt	7.7	B		P
7440-50-8	Copper	10.4			P
7439-89-6	Iron	11300			P
7439-92-1	Lead	14.0		*	F
7439-95-4	Magnesium	1750			P
7439-96-5	Manganese	244		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	13.7			P
7440-09-7	Potassium	177	U		P
7782-49-2	Selenium	0.56	U	W	F
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	83.2	B		P
7440-28-0	Thallium	0.42	U		F
7440-62-2	Vanadium	18.9			P
7440-66-6	Zinc	45.1			P
	Cyanide	0.07	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFD2

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL_ Lab Sample ID: H5024214

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _72.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4850			P
7440-36-0	Antimony	7.9	U	N	P
7440-38-2	Arsenic	5.6			F
7440-39-3	Barium	106			P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	129000			P
7440-47-3	Chromium	10.6			P
7440-48-4	Cobalt	10.1	B		P
7440-50-8	Copper	9.1			P
7439-89-6	Iron	11900			P
7439-92-1	Lead	44.9		*	F
7439-95-4	Magnesium	3590			P
7439-96-5	Manganese	639		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	13.4			P
7440-09-7	Potassium	175	U		P
7782-49-2	Selenium	0.63	B	W	F
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	150	B		P
7440-28-0	Thallium	0.41	U		F
7440-62-2	Vanadium	16.0			P
7440-66-6	Zinc	48.6			P
	Cyanide	0.10	B		AS

Color Before: BLACK Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFD3

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL_ Lab Sample ID: H5024215

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _73.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5840			P
7440-36-0	Antimony	7.9	U	N	P
7440-38-2	Arsenic	6.7			F
7440-39-3	Barium	146			P
7440-41-7	Beryllium	0.42	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	26000			P
7440-47-3	Chromium	11.6			P
7440-48-4	Cobalt	12.9	B		P
7440-50-8	Copper	11.9			P
7439-89-6	Iron	12600			P
7439-92-1	Lead	70.9		*	F
7439-95-4	Magnesium	2480			P
7439-96-5	Manganese	441		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	15.0			P
7440-09-7	Potassium	174	U		P
7782-49-2	Selenium	0.55	U		F
7440-22-4	Silver	0.68	U		P
7440-23-5	Sodium	101	B		P
7440-28-0	Thallium	0.48	B		F
7440-62-2	Vanadium	20.1			P
7440-66-6	Zinc	59.2			P
	Cyanide	0.12	B		AS

Color Before: BLACK Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFD4

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

Matrix (soil/water): SOIL Lab Sample ID: H5024216

Level (low/med): LOW Date Received: 12/13/95

% Solids: 71.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6710			P
7440-36-0	Antimony	8.0	U	N	P
7440-38-2	Arsenic	7.5			F
7440-39-3	Barium	128			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	37900			P
7440-47-3	Chromium	10.1			P
7440-48-4	Cobalt	8.3	B		P
7440-50-8	Copper	11.3			P
7439-89-6	Iron	12200			P
7439-92-1	Lead	20.7		S*	F
7439-95-4	Magnesium	2610			P
7439-96-5	Manganese	696		N	P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	12.9			P
7440-09-7	Potassium	178	U		P
7782-49-2	Selenium	0.56	U		F
7440-22-4	Silver	0.70	U		P
7440-23-5	Sodium	92.5	B		P
7440-28-0	Thallium	0.42	U		F
7440-62-2	Vanadium	19.8			P
7440-66-6	Zinc	49.8			P
	Cyanide	0.07	U		AS

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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3
BLANKS

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

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	21.7	U	26.3	B	26.3	B	32.6	B	4.340	U	P
Antimony	28.8	U	28.8	U	28.8	U	28.8	U	5.760	U	P
Arsenic	2.9	U	2.9	U	2.9	U	2.9	U	0.580	U	F
Barium	0.4	U	1.0	B	0.9	B	0.7	B	0.080	U	P
Beryllium	0.4	B	1.3	B	0.9	B	1.2	B	0.096	B	P
Cadmium	4.1	U	4.1	U	4.1	U	4.1	U	0.820	U	P
Calcium	7.5	B	39.2	B	32.0	B	37.7	B	2.772	B	P
Chromium	3.1	U	3.1	U	3.1	U	3.1	U	0.620	U	P
Cobalt	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	P
Copper	2.4	U	2.4	U	2.4	U	2.4	U	0.480	U	P
Iron	4.3	U	11.1	B	9.8	B	11.2	B	0.860	U	P
Lead	1.1	U	1.1	U	1.1	U	1.1	U	0.220	U	F
Magnesium	23.1	U	25.4	B	23.1	U	23.1	U	4.620	U	P
Manganese	0.7	B	1.9	B	1.2	B	1.7	B	0.094	B	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel	17.9	U	17.9	U	17.9	U	17.9	U	3.580	U	P
Potassium	638.0	U	-1341.8	B	638.0	U	-1080.9	B	127.600	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	F
Silver	2.5	U	2.5	U	2.5	U	2.5	U	0.500	U	P
Sodium	-15.6	B	15.1	U	15.1	U	-18.9	B	-4.604	B	P
Thallium	1.5	U	1.5	U	1.5	U	1.5	U	0.300	U	F
Vanadium	2.8	U	2.8	U	2.8	U	2.8	U	0.560	U	P
Zinc	1.1	U	2.0	B	1.5	B	1.6	B	0.220	U	P
Cyanide	3.0	B	1.0	U	1.9	B	2.1	B	0.050	U	AS

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3
BLANKS

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			37.4	B	37.4	B					P
Antimony			28.8	U	28.8	U					P
Arsenic			2.9	U	2.9	U	2.9	U			F
Barium			0.8	B	0.7	B					P
ryllium			1.0	B	1.0	B					P
dmium			4.1	U	4.1	U					P
icium			32.9	B	34.1	B					P
Chromium			3.1	U	3.1	U					P
Cobalt			4.0	U	4.0	U					P
Copper			2.4	U	2.4	U					P
Iron			5.2	B	7.8	B					P
Lead			1.1	U	1.1	U	-1.3	B			F
Magnesium			23.1	U	23.1	U					P
Manganese			1.7	B	1.4	B					P
Mercury			0.1	U							CV
Nickel			17.9	U	17.9	U					P
Potassium			-695.7	B	638.0	U					P
Selenium			2.0	U	2.0	U					F
Silver			2.5	U	2.5	U					P
Sodium			15.1	U	15.1	U					P
Thallium			1.5	U	1.5	U					F
Vanadium			2.8	U	2.8	U					P
Zinc			1.8	B	1.8	B					P
Cyanide											NR

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3
BLANKS

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			2.9	U							F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.1	U							F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAFD1S

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 72.0

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	90.6278		8.0000	U	138.89	65.3	N	P
Arsenic	75-125	16.6944		5.0278		11.11	105.0		F
Barium	75-125	671.6167		105.5722		555.56	101.9		P
Beryllium	75-125	13.4833		0.4861	B	13.89	93.6		P
Cadmium	75-125	1.1639	B	1.1389	U	1.39	83.7		P
Calcium									NR
Chromium	75-125	62.6389		9.3778		55.56	95.9		P
Cobalt	75-125	140.7389		7.7389	B	138.89	95.8		P
Copper	75-125	76.7500		10.4167		69.44	95.5		P
Iron									NR
Lead	75-125	18.5417		14.0000		5.56	81.7		F
Magnesium									NR
Manganese	75-125	591.8917		243.8528		138.89	250.6	N	P
Mercury	75-125	0.7153		0.0694	U	0.69	103.7		CV
Nickel	75-125	145.5056		13.6611		138.89	94.9		P
Potassium									NR
Selenium	75-125	3.3056		0.5556	U	2.78	118.9		F
Silver	75-125	11.1806		0.6944	U	13.89	80.5		P
Sodium									NR
Thallium	75-125	14.5000		0.4167	U	13.89	104.4		F
Vanadium	75-125	149.7083		18.8722		138.89	94.2		P
Zinc	75-125	170.7333		45.0611		138.89	90.5		P
Cyanide	75-125	7.7910		0.0694	U	6.94	112.3		AS

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAFD1A

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

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	Added (SA)	%R	Q	M
Aluminum									NR
Antimony		162.15		28.80	U	120.0	135.1		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese		2504.69		877.87		1700.0	95.7		P
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEAFD1D

Lab Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _72.0 % Solids for Duplicate: __70.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6395.8528		6361.8250		0.5		P
Antimony		8.0000	U	8.0000	U			P
Arsenic	2.8	5.0278		5.0556		0.6		F
Barium	55.6	105.5722		104.5944		0.9		P
Beryllium		0.4861	B	0.3778	B	25.1		P
Cadmium		1.1389	U	1.1389	U			P
Calcium	1388.9	4776.5083		4713.5361		1.3		P
Chromium	2.8	9.3778		9.4278		0.5		P
Cobalt		7.7389	B	8.0444	B	3.9		P
Copper	6.9	10.4167		10.0361		3.7		P
Iron		11291.3889		11146.9861		1.3		P
Lead		14.0000		17.2500		20.8	*	F
Magnesium	1388.9	1753.0889		1738.1278		0.9		P
Manganese		243.8528		240.6361		1.3		P
Mercury		0.0694	U	0.0694	U			CV
Nickel	11.1	13.6611		11.8972		13.8		P
Potassium		177.2222	U	177.2222	U			P
Selenium		0.5556	U	0.5556	U			F
Silver		0.6944	U	0.6944	U			P
Sodium		83.1556	B	83.4667	B	0.4		P
Thallium		0.4167	U	0.4167	U			F
Vanadium	13.9	18.8722		18.8056		0.4		P
Zinc		45.0611		44.4972		1.3		P
Cyanide		0.0694	U	0.0694	U			AS

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Instrument Detection Limits (Quarterly)

I Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257 SAS No.: SDG No.: MEAFC1

ICP ID Number: TXTJA61 Date: 10/15/95

Flame AA ID Number :

Furnace AA ID Number :

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	21.7	P
Antimony	206.83		60	28.8	P
Arsenic			10		NR
Barium	455.40		200	0.4	P
Beryllium	313.04		5	0.2	P
Cadmium	249.77		5	4.1	P
Calcium	317.93		5000	6.2	P
Chromium	267.72		10	3.1	P
Cobalt	228.62		50	4.0	P
Copper	324.75		25	2.4	P
Iron	259.94		100	4.3	P
Lead			3		NR
Magnesium	279.08		5000	23.1	P
Manganese	257.61		15	0.3	P
Mercury			0.2		NR
Nickel	231.60		40	17.9	P
Potassium	766.49		5000	638.0	P
Selenium			5		NR
Silver	328.07		10	2.5	P
Sodium	589.00		5000	15.1	P
Thallium			10		NR
Vanadium	292.40		50	2.8	P
Zinc	213.86		20	1.1	P

Comments:

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Instrument Detection Limits (Quarterly)

I Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

ICP ID Number: _____ Date: 10/15/95

Flame AA ID Number : _____

Furnace AA ID Number : TXPE4100____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	193.70	BZ	10	2.9	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BZ	5	2.0	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

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Instrument Detection Limits (Quarterly)

I Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

ICP ID Number: _____ Date: 10/15/95

Flame AA ID Number : _____

Furnace AA ID Number : TXPE560_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BD	3	1.1	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

I Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

ICP ID Number: _____ Date: 10/15/95

Flame AA ID Number : TXMAS50A____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

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Instrument Detection Limits (Quarterly)

I Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

ICP ID Number: _____ Date: 10/15/95

Flame AA ID Number : TXTECHNICON_

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10	1.0	AS

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

I Name: CHESTER_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.: MEAFC1

ICP ID Number: _____ Date: 10/15/95

Flame AA ID Number : _____

Furnace AA ID Number : TXPE3030____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.00	BZ	10	1.5	F
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXTJA61_____ Method: P_

Start Date: 12/27/95 End Date: 12/27/95

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
[illegible]	1.00	1123		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]	1.00	1127					X		X		X											X					
S	1.00	1130		X				X				X	X	X			X		X						X	X	
S	1.00	1133								X						X				X			X				
ICV	1.00	1136		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICV	1.00	1139																									
ICB	1.00	1142		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	1146						X	X		X	X	X				X		X			X			X	X	
CRI	1.00	1149																									
ICSA	1.00	1152		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]AB	1.00	1156		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]V	1.00	1159		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]B	1.00	1202		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	1206		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	1.00	1209		X			X	X	X		X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	5.00	1214								X																	
MEAFC1	1.00	1218		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]AFC2	1.00	1221		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]AFC3	1.00	1225		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAFC4	1.00	1228		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAFC5	1.00	1231		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAFC6	1.00	1235		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAFC8	1.00	1238		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	1241		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1245		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAFC9	1.00	1249		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAFD0	1.00	1252		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	1255						X	X		X	X	X				X		X			X			X	X	
CRI	1.00	1259																									
ICSA	1.00	1302		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	1305		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	1309		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: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXTJA61_____ Method: P_

Start Date: 12/27/95 End Date: 12/27/95

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
CCB	1.00	1312		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAFD1	1.00	1315		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAFD1L	5.00	1319		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	[illegible]	-
MEAFD1D	1.00	1322		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAFD1S	1.00	1325			-	-	X	X	X		X	X	X		-		X	-	X		-	X		-	X	X	-
MEAFD2	1.00	1329		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAFD3	1.00	1332		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
MEAFD4	1.00	1335		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCV	1.00	1339		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB	1.00	1342		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
\FD1A	1.00	1347		-	-	-	-	X	X	-	X	X	X	-	-	-	X	-	X	-	-	X	-	-	X	X	-
I	1.00	1350		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
SA	1.00	1355		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSAB	1.00	1359		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCV	1.00	1402		X	-	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB	1.00	1405		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: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXTJA61_____ Method: P_

Start Date: 12/29/95 End Date: 12/29/95

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	1236		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.00	1240		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	1.00	1243		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	1.00	1246		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1252		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1255		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	1258		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1302		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1305		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1308		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAB	1.00	1312		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V	1.00	1315		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B	1.00	1319		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PBS	1.00	1322		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	1.00	1325		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	1.00	1330		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC1	1.00	1334		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC2	1.00	1338		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFC3	1.00	1341		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC4	1.00	1344		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC5	1.00	1347		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC6	1.00	1351		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC8	1.00	1354		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1357		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1401		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC9	1.00	1404		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD0	1.00	1407		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1411		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1414		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1417		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1421		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1424		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXTJA61_____ Method: P_

Start Date: 12/29/95 End Date: 12/29/95

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
CCB	1.00	1427			X																						
MEAFD1	1.00	1431			X																						
MEAFD1L	5.00	1434			X																						
MEAFD1D	1.00	1437			X																						
MEAFD1S	1.00	1441			X																						
MEAFD2	1.00	1444			X																						
MEAFD3	1.00	1447			X																						
MEAFD4	1.00	1451			X																						
CCV	1.00	1500			X																						
CCB	1.00	1504			X																						
FD1A	1.00	1507			X																						
[illegible]	1.00	1511			X																						
[illegible]	1.00	1514																									
ICSA	1.00	1517			X																						
ICSAB	1.00	1521			X																						
CCV	1.00	1524			X																						
CCB	1.00	1529			X																						

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ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE4100_____ Method: F_

Start Date: 12/24/95 End Date: 12/24/95

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	0701				X																					
[illegible]0	1.00	0706				X																					
[illegible]5	1.00	0711				X																					
S50	1.00	0715				X																					
S100	1.00	0720				X																					
ICV	1.00	0725				X																					
ICB	1.00	0730				X																					
CRA	1.00	0734				X																					
CCV	1.00	0739				X																					
CCB	1.00	0744				X																					
[illegible]	1.00	0749				X																					
[illegible]A	1.00	0754	94.5			X																					
[illegible]SS	100.00	0758				X																					
LCSSA	100.00	0803	95.5			X																					
CCV	1.00	0808				X																					
CCB	1.00	0813				X																					
MEAFC1	1.00	0818																									
MEAFC1A	1.00	0823	116.0																								
[illegible]AFC2	1.00	0827				X																					
[illegible]AFC2A	1.00	0832	112.0			X																					
MEAFC3	1.00	0837				X																					
MEAFC3A	1.00	0842	108.0			X																					
MEAFC4	1.00	0847				X																					
MEAFC4A	1.00	0851	115.0			X																					
MEAFC5	1.00	0856				X																					
MEAFC5A	1.00	0901	97.0			X																					
CCV	1.00	0906				X																					
CCB	1.00	0910				X																					
MEAFC6	1.00	0915				X																					
MEAFC6A	1.00	0920	98.5			X																					
MEAFC8	1.00	0925				X																					
MEAFC8A	1.00	0930	109.5			X																					

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ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE4100_____ Method: F_

Start Date: 12/24/95 End Date: 12/24/95

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
MEAFC9	1.00	0934		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC9A	1.00	0939	101.5	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD0	1.00	0944		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD0A	1.00	0949	109.0	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1	1.00	0953		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1A	1.00	0958	110.0	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1003		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1008		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1D	1.00	1013		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1DA	1.00	1018	105.0	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FD1S	1.00	1022		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFD2	1.00	1027		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFD2A	1.00	1032	130.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD3	1.00	1037		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD3A	1.00	1042	102.5	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD4	1.00	1047		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD4A	1.00	1051	104.5	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1056		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1101		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD2	1.00	1106		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD2A	1.00	1111	102.5	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1116		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1121		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC10	1.00	1125		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC11	1.00	1127		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC12	1.00	1130		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC13	1.00	1132		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1135		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1137		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE560_____ Method: F_

Start Date: 12/29/95 End Date: 12/29/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SP	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	1100		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
	1.00	1105		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S50	1.00	1110		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S100	1.00	1115		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV	2.00	1130		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	1135		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00	1140		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1145		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1150		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBS	1.00	1155		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SA	1.00	1200	84.8	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SS	25.00	1205		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SSA	25.00	1210	88.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC1	1.00	1215		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC1A	1.00	1220	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC2	1.00	1225		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC2A	1.00	1230	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC3	1.00	1235		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFC3A	1.00	1240	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1245		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1250		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC4	1.00	1255		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC4A	1.00	1300	101.8	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC5	1.00	1305		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC5A	1.00	1310	122.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC6	1.00	1315		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC6A	1.00	1320	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC8	1.00	1325		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC8A	1.00	1330	108.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC9	1.00	1335		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC9A	1.00	1340	114.8	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1345		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE560_____ Method: F_

Start Date: 12/29/95 End Date: 12/29/95

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
CCB	1.00	1350		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD0	1.00	1355		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD0A	1.00	1400	75.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1	1.00	1405		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1A	1.00	1410	91.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1D	1.00	1415		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1DA	1.00	1420	79.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1S	1.00	1425		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD2	1.00	1430		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD2A	1.00	1435	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[illegible]	1.00	1440		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
[illegible]	1.00	1445		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
[illegible]AFD3	1.00	1450		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD3A	1.00	1455	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD4	1.00	1500		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD4A	1.00	1505	76.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC1	10.00	1510		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC1A	10.00	1515	96.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC2	10.00	1520		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC2A	10.00	1525	96.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC3	10.00	1530		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC3A	10.00	1535	109.8	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1540		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1545		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC6	10.00	1550		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC6A	10.00	1555	103.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD2	10.00	1600		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD2A	10.00	1605	107.3	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD3	10.00	1610		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD3A	10.00	1615	90.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1620		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1625		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE560_____ Method: F_

Start Date: 12/29/95 End Date: 12/29/95

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
MEAFC50_	3.00	1630		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC51_	3.00	1635		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC52_	3.00	1640		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFC53_	3.00	1645		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD00_	2.00	1650		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD01_	2.00	1655		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD02_	2.00	1700		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD03_	2.00	1705		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1D0	3.00	1710		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD1D1	3.00	1715		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
\FD1D2	3.00	1720		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
4FD1D3	3.00	1725		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
.AFD40_	3.00	1730		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD41_	3.00	1735		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD42_	3.00	1740		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAFD43_	3.00	1745		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV_____	1.00	1750		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ__	1.00	1752		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CB_____	1.00	1755		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
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U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE4100_____ Method: F_

Start Date: 12/23/95 End Date: 12/23/95

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	0954		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	0958		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S20	1.00	1003		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	1008		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S100	1.00	1013		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	1017		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	1022		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	1027		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1032		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1037		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
[illegible]	1.00	1041		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
[illegible]A	1.00	1046	107.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
[illegible]SS	5.00	1051		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSSA	5.00	1056	91.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC1	1.00	1111		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC1A	1.00	1115	99.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC2	1.00	1120		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC2A	1.00	1125	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC3	1.00	1130		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC3A	1.00	1135	48.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC4	1.00	1139		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC4A	1.00	1144	123.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC5	1.00	1149		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC5A	1.00	1154	113.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1158		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC6	1.00	1208		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC6A	1.00	1213	129.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC8	1.00	1218		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC8A	1.00	1222	92.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE4100_____ Method: F_

Start Date: 12/23/95 End Date: 12/23/95

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
MEAFC9	1.00	1227		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFC9A	1.00	1232	117.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD0	1.00	1237		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD0A	1.00	1242	121.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD1	1.00	1246		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD1A	1.00	1251	118.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1256		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1301		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD1D	1.00	1306		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD1DA	1.00	1311	115.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FD1S	1.00	1316		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
AFD2	1.00	1320		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
AFD2A	1.00	1325	69.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD3	1.00	1330		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD3A	1.00	1335	111.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD4	1.00	1340		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAFD4A	1.00	1345	113.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1349		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
B	1.00	1354		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE3030_____ Method: F_

Start Date: 12/28/95 End Date: 12/28/95

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	0700		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S10	1.00	0705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S25	1.00	0710		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S50	1.00	0715		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S100	1.00	0720		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICV	2.00	0725		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICB	1.00	0730		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CRA	1.00	0735		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV	1.00	0740		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB	1.00	0745		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
;	1.00	0750		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
SA	1.00	0755	96.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
..SS	5.00	0800		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSSA	5.00	0805	81.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV	1.00	0810		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB	1.00	0815		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC1	1.00	0820		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC1A	1.00	0825	111.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC2	1.00	0830		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC2A	1.00	0835	114.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC3	1.00	0840		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC3A	1.00	0845	106.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC4	1.00	0850		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC4A	1.00	0855	103.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC5	1.00	0900		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC5A	1.00	0905	108.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV	1.00	0910		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB	1.00	0915		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC6	1.00	0920		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC6A	1.00	0925	115.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC8	1.00	0930		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC8A	1.00	0935	120.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXPE3030_____ Method: F_

Start Date: 12/28/95 End Date: 12/28/95

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
MEAFC9	1.00	0940		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFC9A	1.00	0945	110.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD0	1.00	0950		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD0A	1.00	0955	112.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD1	1.00	1000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD1A	1.00	1005	111.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV	1.00	1010		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB	1.00	1015		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD1D	1.00	1020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD1DA	1.00	1025	116.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
\FD1S	1.00	1030		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
AFD2	1.00	1035		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
AFD2A	1.00	1040	110.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD3	1.00	1045		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD3A	1.00	1050	107.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD4	1.00	1055		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAFD4A	1.00	1100	107.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV	1.00	1105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB	1.00	1110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
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U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXMAS50A_____ Method: CV

Start Date: 12/23/95 End Date: 12/23/95

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	1115		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.2	1.00	1118		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.5	1.00	1121		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S1	1.00	1124		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S5	1.00	1127		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S10	1.00	1130		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICV	1.00	1133		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICB	1.00	1136		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CRA	1.00	1139		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1142		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
[illegible]	1.00	1145		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZ	1.00	1148		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[illegible]W	1.00	1151		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
LCSS	1.00	1154		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1157		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1200		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC1	1.00	1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC2	1.00	1206		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC3	1.00	1209		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC4	1.00	1212		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC5	1.00	1215		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC6	1.00	1218		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC8	1.00	1221		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFC9	1.00	1224		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFD0	1.00	1227		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFD1	1.00	1230		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1233		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1236		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFD1D	1.00	1239		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFD1S	1.00	1242		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFD2	1.00	1245		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
MEAFD3	1.00	1248		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXMAS50A_____ Method: CV

Start Date: 12/23/95 End Date: 12/23/95

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
MEAFD4	1.00	1251		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
V	1.00	1254		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB	1.00	1257		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–

FORM XIV - IN ILM04.0

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: CHESTER_LABNET_____ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24257_ SAS No.: _____ SDG No.:MEAFC1

Instrument ID Number: TXTECHNICON__ Method: AS

Start Date: 12/06/95 End Date: 12/06/95

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	1524																									X
S10	1.00	1525																									X
S50	1.00	1526																									X
S100	1.00	1527																									X
S150	1.00	1528																									X
S200	1.00	1529																									X
ICV/LCSS	1.00	1543																									X
ICB	1.00	1544																									X
CCV	1.00	1545																									X
CCB	1.00	1546																									X
V	1.00	1547																									X
AFC1	1.00	1548																									X
AFC2	1.00	1549																									X
MEAFC3	1.00	1550																									X
MEAFC4	1.00	1551																									X
MEAFC5	1.00	1552																									X
MEAFC6	1.00	1553																									X
MEAFC8	1.00	1554																									X
MEAFC9	1.00	1554																									X
MEAFD0	1.00	1556																									X
CCV	1.00	1556																									X
CCB	1.00	1557																									X
MEAFD1	1.00	1558																									X
MEAFD1D	1.00	1559																									X
MEAFD1S	1.00	1600																									X
MEAFD2	1.00	1600																									X
MEAFD3	1.00	1601																									X
MEAFD4	1.00	1602																									X
CCV	1.00	1602																									X
CCB	1.00	1603																									X

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 24257
SITE: ILADA Waste (IL)
MATRIX: Soil
WATER SAMPLE SPK:
DATA SET:
LAB: Chestx
CONC: Low
WATER SAMPLE DUP:
LAB QC # MEAFC1
REVIEWED BY: Bai Yuen
SOIL SAMPLE SPK:
DATE: 1-11-96
SOIL SAMPLE DUP:

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	METAL CALIB	CONTRM CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS SB	SOIL SPIKE SB	SOIL DUP S/D	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP SB	AQ SPIKE SB	BLANK	DUP S/D	BLANK	DUP S/D		
ALUMINUM																					
ANTIMONY								65.3													
ARSENIC																					
BARIUM																					
BERYLLIUM			1.3																		
CADMIUM																					
CALCIUM																					
CHROMIUM																					
COBALT																					
COPPER																					
IRON																					
LEAD																					
MAGNESIUM																					
MANGANESE								25a6													
MERCURY																					
NICKEL																					
POTASSIUM																					
SELENIUM																					
SILVER																					
SODIUM																					
THALLIUM																					
TIN																					
VANADIUM																					
ZINC																					
CYANIDE		3.0																			

EPA United States Environmental Protection Agency Contract Laboratory Program

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

SAS No. (If applicable):

Case No.: 24257

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 B): 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

Sampler (Name): Pete Sorensen

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: 11-28-95

Carrier: FED Ex

Airbill Number: 4957337044

5. Ship To: Chester LABNET, 8300 W. Park Dr., Houston, TX 77063, ATTN: Dela Massoudi

6. Date Received — Received by: 11/29/95 D. Massoudi

Laboratory Contract Number: 68-D7-0140

Unit Price: 84.5

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-Immiscible Liq.
MEAFC1	5	L	G	6		X	X					5-179827	X101	11/28/95/1445	EARH3	PS			
MEAFC2	5	L	G	6		X	X					5-179828	X102	11/28/95/1245	EARH4	PS			
MEAFC3	5	L	G	6		X	X					5-179829	X103	11/28/95/1245	EARH5	PS			
MEAFC4	5	L	G	6		X	X					5-179830	X104	11/28/95/1330	EARH6	PS			
MEAFC5	5	L	G	6		X	X					5-179831	X105	11/28/95/1350	EARH7	PS			
MEAFC6	5	L	G	6		X	X					5-179832	X106	11/28/95/1445	EARH8	PS			
MEAFC7	5	L	G	6		X	X					5-179833	X107	11/28/95/	EARH9	PS			
MEAFC8	5	L	G	6		X	X					5-179834	X201	11/28/95/1410	EARJ0	PS			
MEAFC9	5	L	G	6		X	X					5-179835	X202	11/28/95/1050	EARJ1	PS			
MEAFD0	5	L	G	6		X	X					5-179836	X203	11/28/95/1030	EABF1	PS			

Shipment for Case Complete? (Y/N): Y

Page: 1 of 2

Sample(s) to be Used for Laboratory QC: MEAFD1

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 41532, 41539

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Pete Sorensen	11-28-95 / 1730				
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	
		D. Massoudi	11/29/95 09:00	MEAFC7 NOT SHIPPED BDG: MEAFC1	

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

A21-012-4 REV. 3/93

362235

Inorganic Traffic Report/Chain of Custody Form Inst. Report

00276

EPA United States Environmental Protection Agency Contract Laboratory Program

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

SAS No. (if applicable)

Case No. [illegible]

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.: EPA
Sampler (Name): [illegible]
Sampler Signature: [illegible]

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: [illegible]
Carrier: [illegible]
Airbill Number: 4957337044

5. Ship To: Chester LABNET, 8300 W. Park DR, Houston, TX, 77063
ATTN: Dela Massaudi

6. Date Received -- Received by: 11/29/95 D. Massaudi
Laboratory Contract Number: 68-D5-0140
Unit Price: 8450

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-Immiscible Liq.
MEAFD1	5	L	G	6		X	X					5-179837	[illegible]	[illegible]	EAEF2	[illegible]			
MEAFD2	5	L	G	6		X	X					5-171838	[illegible]	[illegible]	EAGF3	[illegible]			
MEAFD3	5	L	G	6		X	X					5-179839	[illegible]	[illegible]	EAFA9	[illegible]			
MEAFD4	5	L	G	6		X	X					5-179840	[illegible]	[illegible]	EAFB6	[illegible]			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 2	MEAFD1		[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
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) D. Massaudi	Date / Time 11/29/95 07:00 AM	Remarks: Is custody seal intact? Y/N/none SDG: MEAFC1	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pi[illegible] SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 91[illegible]

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-6 REV 3/93

362236

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable):
Case: 24257

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.: V
Sampling Co.: IEPA
4. Date Shipped: 11-28-95
Carrier: FED. EX
6. Date Received – Received by: 11-29-95 [signature]
Laboratory Contract Number: 68-D5-0018
Unit Price: $616.95

Sampler (Name): Pete Sorensen
Airbill Number: 4957337055
Sampler Signature: [signature]
5. Ship To: American Technical + Analytical Services, 875 Fee Fee Rd., Maryland Heights, MO 63043, ATTN: T. Will Solomon
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), 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.
EARH8	5	L	G	5	X				5-003122-23	X106	11/28/95/1415	MEAFC6	P.S			
EARH8	5	L	G	5		X	X		5-003124	X106	11/28/95/1415	MEAFC6	P.S			
EARH9	5	L	G	5	X				5-003125-26	X107	11/28/95/	MEAFC7	P.S			
EARH9	5	L	G	5		X	X		5-003127	X107	11/28/95/	MEAFC7	P.S			
EARJØ	5	L	G	5	X				5-003128-29	X201	11/28/95/1110	MEAFC8	P.S			
EARJØ	5	L	G	5		X	X		5-003130	X201	11/28/95/1110	MEAFC8	P.S			
EARJ1	5	L	G	5	X				5-003131-32	X202	11/28/95/1050	MEAFC9	P.S			
EARJ1	5	L	G	5		X	X		5-003133	X202	11/28/95/1050	MEAFC9	P.S			
EABF1	5	L	G	5	X				5-003134-35	X203	11/28/95/1030	MEAFDØ	P.S			
EABF1	5	L	G	5		X	X		5-003136	X203	11/28/95/1030	MEAFDØ	P.S			

Shipment for Case Complete? (Y/N): Y
Page: 2 of 3
Sample(s) to be Used for Laboratory QC: EAHF2
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 41541, 41541

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	11-28-95 / 1730				
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) [signature]	Date / Time: 11-29-95 / 0919	Remarks: 4°C	Is custody seal intact? Y/N/none

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

EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV 3/93

*SDG--FINAL SAMPLE

EABF1

362822

00012

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable):
Case No.: 24257

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.: V
Sampling Co.: IEPA
4. Date Shipped: 11-28-95
Carrier: FED. EX
6. Date Received – Received by: 11-29-95 [signature]
Sampler (Name): Pete Sorensen
Airbill Number: 4957 3370 55
Laboratory Contract Number: 68-D5-0018
Unit Price: $616.95
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: American Technical + Analytical Services, 875 Fee Fee Rd., Maryland Heights, MO 6304, ATTN: T. Will Solomon
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.
EARH3	5	L	G	5	X				5-179841-42	X101	11/28/95/1445	MEAFC1	P.S			
EARH3	5	L	G	5		X	X		5-179844	X101	11/28/95/1445	MEAFC1	P.S			
EARH4	5	L	G	5	X				5-179845-46	X102	11/28/95/1245	MEAFC2	P.S			
EARH4	5	L	G	5		X	X		5-179847	X102	11/28/95/1245	MEAFC2	P.S			
EARH5	5	L	G	5	X				5-179848-49	X103	11/28/95/1245	MEAFC3	P.S			
EARH5	5	L	G	5		X	X		5-179850	X103	11/28/95/1245	MEAFC3	P.S			
EARH6	5	L	G	5	X				5-003116-17	X104	11/28/95/1330	MEAFC4	P.S			
EARH6	5	L	G	5		X	X		5-003118	X104	11/28/95/1330	MEAFC4	P.S			
EARH7	5	L	G	5	X				5-003119-20	X105	11/28/95/1350	MEAFC5	P.S			
EARH7	5	L	G	5		X	X		5-003121	X105	11/28/95/1350	MEAFC5	P.S			

Shipment for Case Complete? (Y/N): Y
Page: 1 of 3
Sample(s) to be Used for Laboratory QC: EABFZ
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 41540, 41541

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	11-28-95 1730				
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) [signature]	Date / Time: 11-29-95 0919	Remarks: 4°C	Is custody seal intact? Y/N/none

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

EPA Form 9110-2

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

A21-012-4 REV. 3/93

Organic Traffic Report/Chain of Custody Form Instructions

D00018A 08-05-95

EPA

United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable):

Case No.: 2.25

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.: V
Sampling Co.: IEPA
4. Date Shipped: 11-28-95
Carrier: FED Ex.
6. Date Received – Received by: 11-29-95 [signature]

Sampler (Name): Pete Sorensen
Airbill Number: 4957337055
Laboratory Contract Number: 68-D5-0018
Unit Price: $616.95

Sampler Signature: [signature]
5. Ship To: American Technical + Analytical Services, 875 Fee Fee Rd., Maryland Heights, MO 63043
ATTN: T. Will Solomon
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), 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.
EABF2	5	L	G	5	X				5-003137-38	X204	11/28/95/1015	MEAFD1	P.S			
EABF2	5	L	G	5		X	X		5-003139	X204	11/28/95/1015	MEAFD1	P.S			
EABF3	5	L	G	5	X				5-003140-41	X205	11/28/95/0930	MEAFD2	P.S			
EABF3	5	L	G	5		X	X		5-003142	X205	11/28/95/0930	MEAFD2	P.S			
EAPA9	5	L	G	5	X				5-003143-44	X206	11/28/95/0930	MEAFD3	P.S			
EAPA9	5	L	G	5		X	X		5-003145	X206	11/28/95/0930	MEAFD3	P.S			
EAPB0	5	L	G	5	X				5-003146-47	X207	11/28/95/0855	MEAFD4	P.S			
EAPB0	5	L	G	5		X	X		5-003148	X207	11/28/95/0855	MEAFD4	P.S.			

Shipment for Case Complete? (Y/N): Y
Page: 3 of 3
Sample(s) to be Used for Laboratory QC: EABF2
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)
[signature]	11-28-95 / 1750				
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]	11-29-95 / 0919	4°C	

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

EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

EABF1

362823

000017

A21-012-4 REV 3/93

ORGANIC TRAFFIC REPORT/CHAIN OF CUSTODY RECORD INSTRUCTIONS