Reference 19

9532579

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

MEMORANDUM

Date: July 25, 2000

Subject: Contract Laboratory Program Data Review

From: Marvelyn Humphrey, Alternate ESAT RPO, 6MD-HC

To: B. Rhotenberry, 6SF-RA

Site : FALCON REFINING

Case#: 28064

SDG# : F02H1

The EPA Region 6 Houston Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative.

If you have any questions regarding the data review report, please call me at (281) 983-2140.

Attachments
cc: R. Flores, Region 6 CLP/TPO
M. El-Feky, Region 6 Data Coordinator
Files (2)

LOCKHEED MARTIN SERVICES GROUP
ESAT REGION VI
10101 SOUTHWEST FREEWAY, SUITE 500
HOUSTON, TX 77074

MEMORANDUM

DATE: July 24, 2000

TO: Melvin Ritter/Marvelyn Humphrey, ESAT RPO/Alternate RPO, Region VI

FROM: Tom C.H. Chiang, ESAT Team Manager, Region VI

SUBJECT: CLP Data Review

REF: TDF # 6-0388A ESAT # O-2206
ESAT Contract No. 68-D6-0005

Attached is the data review summary for Case # 28064
SDG # F02H1
Site Falcon Refining

COMMENTS:

I. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The data package contained the following contractually noncompliant item that was detected by the hardcopy review and CCS audit. The noncompliant item caused data qualification in six Pest/PCB samples.

One Pest/PCB method blank contained a target compound at the CRQL (OLM04.2, D-70/PEST, sec. 12.1.2.4.3).

II. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed was 2820 for this data package. Some results were qualified because of minor technical problems.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	28064	SITE	Falcon Refining
LABORATORY	AATS	NO. OF SAMPLES	20
CONTRACT#	68-W00-077	MATRIX	17 Soil/3 Water
SDG#	F02H1	REVIEWER (IF NOT ESD)	ESAT
SOW#	RAS SOW OLM04.2	REVIEWER'S NAME	Nick Gannon
ACCT#	050102DJN73	COMPLETION DATE	July 24, 2000
SF#	50102DZZ		

SAMPLE NO.					
	F0-2HD	F0-2HJ	F0-2HN	F0-2HS	F0-2J9
	F0-2HF	F0-2HK	F0-2HP	F0-2H1	F0-2JE
	F0-2HG	F0-2HL	F0-2HO	F0-2H2	F0-2K1
	F0-2HH	F0-2HM	F0-2HR	F0-2H3	F0-2KD

DATA ASSESSMENT SUMMARY

	VOA	BNA	PEST
1. HOLDING TIMES	O	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O
3. CALIBRATIONS	O	O	O
4. BLANKS	M	O	M
5. SMC/SURROGATES	O	O	O
6. MATRIX SPIKE/DUPLICATE	O	O	O
7. OTHER QC	O	O	O
8. INTERNAL STANDARDS (IS)	O	O	N/A
9. COMPOUND ID/QUANTITATION	O	O	O
10. PERFORMANCE/COMPLETENESS	O	O	O
11. OVERALL ASSESSMENT	M	O	M

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: One Pest/PCB method blank contained a target compound at the CRQL.

AREA OF CONCERN: Laboratory contamination resulted in raised quantitation limits for three VOA samples and six Pest/PCB samples.

NOTABLE PERFORMANCE:

COMMENTS/CLARIFICATIONS
REGION VI CLP QA REVIEW

CASE 28064 **SDG** F02H1 **SITE** Falcon Refining **LAB** AATS

The following is a summary of sample qualifiers used by Region 6 in reporting this CLP data:

No.	Acceptable	Provisional	Unacceptable
VOA	17	3	
BNA	20		
Pest/PCB	14	6	

COMMENTS: This SDG consisted of 17 soil samples and 3 field blanks for full RAS analysis by OLM04.2. The OTR/COC designated sample F0-2HD as the soil QC sample; samples F0-2HF/F0-2HG, F0-2HP/F0-2HQ, and F0-2JE/F0-2KD as field duplicates, and samples F0-2H1, F0-2H2, and F0-2H3 as field blanks. Modified SW-846 method 5035 was used for the VOA soil sample analysis. The laboratory used additional silica gel cleanup for the Pest/PCB samples following SW-846 method 3630 with the EPA's permission. The CRQL's require %moisture correction for the soil samples. The corrected CRQL's are reported by the laboratory and are referred to as sample quantitation limits (SQL's) in this report. All samples were analyzed at the low level. The data package contained the contractually noncompliant item below.

- Pest/PCB method blank PBLKSC contained heptachlor at the CRQL.

Acetone was reported in two VOA samples and bis(2-ethylhexyl) phthalate was reported in one BNA sample at concentrations above the SQL's. Heptachlor, acetone and/or methylene chloride were reported at concentrations above the SQL's in nine samples, but their presence was due to laboratory contamination. The laboratory reanalyzed BNA sample F0-2HQ because of a high internal standard response and the reanalysis repeated the problem. The original analysis results are recommended for use.

Some data are provisional for three VOA samples and six Pest/PCB samples because of problems with laboratory contamination. The technical usability of all reported sample results is indicated by ESAT's final data qualifiers in the Data Summary Table. An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the audit results were documented in the Evidence Inventory Checklist.

NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 28064 **SDG** F02H1 **SITE** Falcon Refining **LAB** AATS

Acceptable = No results were qualified for any problem associated with this QC parameter.
Provisional = Some results were qualified because of problems associated with this QC parameter.
Unusable = All results are unusable because of major problems associated with this QC parameter.

1. Holding Times: Acceptable. All samples met contractual holding time criteria. The water samples met the technical holding time criteria (40 CFR Part 136). Technical holding time criteria have not been established for soil samples.

2. Tuning/Performance: Acceptable. The BFB and DFTPP analyses met GC/MS tuning criteria. All Pest/PCB sample analyses met instrument performance guidelines.

3. Calibrations: Acceptable. TCL compounds met contractual calibration criteria. Several target analytes failed technical %RSD and/or %D criteria for the initial and/or daily calibrations, but no data qualification was necessary.

4. Blanks: Provisional. The method, instrument, and storage blanks met contractual requirements.

VOA/Pest The method blanks contained acetone, methylene chloride, 1,2,4-trichlorobenzene, heptachlor, and gamma chlordane at concentrations at or below the contractual limits. In the reviewers opinion, the acetone result for sample F0-2HK; the methylene chloride results for samples F0-2HF, F0-2HK, and F0-2K1; and the heptachlor results for samples F0-2HK, F0-2HP, F0-2HR, F0-2HS, F0-2K1, and F0-2KD should be qualified as undetected (U) and used as raised quantitation limits (M-flag).

BNA The method blanks contained benzaldehyde, acetophenone, and bis(2-ethylhexyl)phthalate at concentrations below the CRQL's. The benzaldehyde result for sample F0-2KD and the acetophenone result in F0-2HP were biased high because of lab contamination.

All other laboratory "B"-flagged results, with concentrations below the SQL's, should be considered as undetected (U).

Field Blanks The analytes 4-chloro-3-methylphenol and alpha-chlordane were detected, at concentrations below the CRQL's, in field blank samples F0-2H1, F0-2H2, and F0-2H3. Because the associated soil samples have different matrix and reporting units than the field blanks (water), the reviewer cannot accurately flag the soil sample results for field contamination. The reviewer did note that neither compound was detected in the associated samples in this SDG.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 28064 SDG F02H1 SITE Falcon Refining LAB AATS

5. System Monitoring Compounds (SMC's)/Surrogates: Acceptable. SMC and surrogate recoveries met contractual requirements for all samples. The DCB recoveries were marginally below the QC limit for Pest/PCB samples F0-2HP, F0-2HS, and F0-2JE. Since this recovery was within the expanded Region 6 limits, no results were qualified.

6. Matrix Spike/Matrix Spike Duplicate: Acceptable. Since all the water samples in this SDG are field QC samples, no MS/MSD analyses were required for the water matrix. The MS/MSD results for the soil matrix met QC guidelines for precision and %recovery with some exceptions documented below:

VOA The MSD %recoveries were below and %RPD's were over the QC limits for all spiking compounds. The MS recoveries were within QC limits. Following Region 6 guidelines, no data qualification was required.

BNA/Pest The MSD %recovery was marginally high for 2,4-dinitrotoluene, and the MS %recovery for gamma-BHC was marginally below the QC limits. Data qualification was unnecessary in the reviewer's opinion.

7. Other QC:

Field Duplicates: Acceptable. Field duplicate results were generally consistent.

8. Internal Standards (IS): Acceptable. The internal standard performance met QC criteria for all samples except BNA sample F0-2HQ, which had a high response for IS4. The laboratory reanalyzed the sample with similar results that confirmed matrix interference. In the reviewer's opinion, results from the original analysis should be used. Since no target analytes associated with IS4 were detected in the samples, result qualification is unnecessary.

9. Compound Identity/Quantitation: Acceptable. All reported results met compound identification criteria.

Acetone was reported at concentrations above the SQL's in VOA samples F0-2HF and F0-2HG, and bis(2-ethylhexyl)phthalate was reported at a concentration above the SQL in BNA sample F0-2HM. The other target compound results above the SQL's were due to laboratory contamination.

10. Performance/Completeness: Acceptable. The data package was complete but contained an error. The laboratory was contacted for a correction (see FAX Record Log). The laboratory response to the CCS audit was reviewed and inserted into the data package.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 28064 **SDG** F02H1 **SITE** Falcon Refining **LAB** AATS

11. Overall Assessment: Data are acceptable for 17 VOA, all BNA, and 14 Pest/PCB samples.

Some results are provisional for the following samples because of problems with laboratory contamination:

VOA: F0-2HF, F0-2HK, and F0-2K1.

Pest/PCB: F0-2HK, F0-2HP, F0-2HR, F0-2HS, F0-2K1, and F0-2KD.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

B This result may be high biased because of laboratory/field contamination. The reported concentration is above 5X or 10X the concentration reported in the method/field blank.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

* Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

Rev. 11/99

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Soil Units : ug/Kg

VOLATILE EPA SAMPLE NUMBER :	F0-2HD	FLAG	F0-2HF	FLAG	F0-2HG	FLAG	F0-2HH	FLAG	F0-2HJ	FLAG	F0-2HK	FLAG	F0-2HL	FLAG
Dichlorodifluoromethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Chloromethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Vinyl Chloride	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Bromomethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Chloroethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Trichlorofluoromethane	11	U	12	U	5	LJ	12	U	14	U	14	U	13	U
1,1-Dichloroethene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Acetone	11	U	64		33		12	U	14	U	38	UM	13	U
Carbon Disulfide	1	LJ	12	U	2	LJ	12	U	14	U	14	U	13	U
Methyl Acetate	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Methylene Chloride	11	U	21	UM	12	U	12	U	14	U	26	UM	13	U
trans-1,2-Dichloroethene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Methyl tert-Butyl Ether	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,1-Dichloroethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
cis-1,2-Dichloroethene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
2-Butanone	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Chloroform	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,1,1-Trichloroethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Cyclohexane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Carbon Tetrachloride	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Benzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,2-Dichloroethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Trichloroethene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Methylcyclohexane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,2-Dichloropropane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Bromodichloromethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
cis-1,3-Dichloropropene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
4-Methyl-2-pentanone	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Toluene	11	U	12	U	2	LJ	12	U	14	U	14	U	13	U
trans-1,3-Dichloropropene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,1,2-Trichloroethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Tetrachloroethene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
2-Hexanone	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Dibromochloromethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,2-Dibromoethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Chlorobenzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Ethylbenzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Xylenes (total)	11	U	12	U	2	LJ	12	U	14	U	14	U	13	U
Styrene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Bromoform	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Isopropylbenzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,1,2,2-Tetrachloroethane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,3-Dichlorobenzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,4-Dichlorobenzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,2-Dichlorobenzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,2-Dibromo-3-chloropropane	11	U	12	U	12	U	12	U	14	U	14	U	13	U
1,2,4-Trichlorobenzene	11	U	12	U	12	U	12	U	14	U	14	U	13	U
Sample wt (g) :	5.8		5.9		5.6		5.5		5.1		5.1		5.9	
%Moisture :	19		28		28		23		28		30		33	
Dilution Factor :	1		1		1		1		1		1		1	
Level :	Low		Low		Low		Low		Low		Low		Low	
Number of TIC's :	5		3		5		4		1		4		3	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Soil Units: ug/Kg

VOLATILE EPA SAMPLE NUMBER:	F0-2HM	FLAG	F0-2HN	FLAG	F0-2HP	FLAG	F0-2HQ	FLAG	F0-2HR	FLAG	F0-2HS	FLAG	F0-2JE	FLAG
Dichlorodifluoromethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Chloromethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Vinyl Chloride	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Bromomethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Chloroethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Trichlorofluoromethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,1-Dichloroethene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Acetone	11	U	9	LJ	15	U	18	U	16	U	14	U	13	U
Carbon Disulfide	4	LJ	3	LJ	15	U	18	U	16	U	14	U	13	U
Methyl Acetate	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Methylene Chloride	11	U	11	U	15	U	18	U	16	U	14	U	13	U
trans-1,2-Dichloroethene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Methyl tert-Butyl Ether	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,1-Dichloroethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
cis-1,2-Dichloroethene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
2-Butanone	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Chloroform	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,1,1-Trichloroethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Cyclohexane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Carbon Tetrachloride	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Benzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,2-Dichloroethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Trichloroethene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Methylcyclohexane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,2-Dichloropropane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Bromodichloromethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
cis-1,3-Dichloropropene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
4-Methyl-2-pentanone	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Toluene	11	U	3	LJ	15	U	18	U	16	U	14	U	13	U
trans-1,3-Dichloropropene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,1,2-Trichloroethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Tetrachloroethene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
2-Hexanone	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Dibromochloromethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,2-Dibromoethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Chlorobenzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Ethylbenzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Xylenes (total)	11	U	2	LJ	15	U	18	U	16	U	14	U	13	U
Styrene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Bromoform	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Isopropylbenzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,1,2,2-Tetrachloroethane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,3-Dichlorobenzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,4-Dichlorobenzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,2-Dichlorobenzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,2-Dibromo-3-chloropropane	11	U	11	U	15	U	18	U	16	U	14	U	13	U
1,2,4-Trichlorobenzene	11	U	11	U	15	U	18	U	16	U	14	U	13	U
Sample wt (g):	5.6		5.6		4.8		4.1		4.7		5.2		4.2	
%Moisture:	19		19		32		33		33		30		6	
Dilution Factor:	1		1		1		1		1		1		1	
Level:	Low		Low		Low		Low		Low		Low		Low	
Number of TIC's:	3		5		5		3		0		1		2	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Soil Units: ug/Kg

VOLATILE EPA SAMPLE NUMBER:	FLAG F0-2J9	FLAG F0-2KD	FLAG F0-2K1				
Dichlorodifluoromethane	12 U	12 U	10 U				
Chloromethane	12 U	12 U	10 U				
Vinyl Chloride	12 U	12 U	10 U				
Bromomethane	12 U	12 U	10 U				
Chloroethane	12 U	12 U	10 U				
Trichlorofluoromethane	12 U	12 U	10 U				
1,1-Dichloroethene	12 U	12 U	10 U				
1,1,2-Trichloro-1,2,2-trifluoroethane	12 U	12 U	10 U				
Acetone	12 U	12 U	10 U				
Carbon Disulfide	12 U	4 LJ	10 U				
Vethyl Acetate	12 U	12 U	10 U				
Methylene Chloride	12 U	12 U	24 UM				
trans-1,2-Dichloroethene	12 U	12 U	10 U				
Methyl tert-Butyl Ether	12 U	12 U	10 U				
1,1-Dichloroethane	12 U	12 U	10 U				
cis-1,2-Dichloroethene	12 U	12 U	10 U				
2-Butanone	12 U	12 U	10 U				
Chloroform	12 U	12 U	10 U				
1,1,1-Trichloroethane	12 U	12 U	10 U				
Cyclohexane	12 U	12 U	10 U				
Carbon Tetrachloride	12 U	12 U	10 U				
Benzene	12 U	12 U	10 U				
1,2-Dichloroethane	12 U	12 U	10 U				
Trichloroethene	12 U	12 U	10 U				
Methylcyclohexane	12 U	12 U	10 U				
1,2-Dichloropropane	12 U	12 U	10 U				
Bromodichloromethane	12 U	12 U	10 U				
cis-1,3-Dichloropropene	12 U	12 U	10 U				
4-Methyl-2-pentanone	12 U	12 U	10 U				
Toluene	12 U	12 U	10 U				
trans-1,3-Dichloropropene	12 U	12 U	10 U				
1,1,2-Trichloroethane	12 U	12 U	10 U				
Tetrachloroethene	12 U	12 U	10 U				
2-Hexanone	12 U	12 U	10 U				
Dibromochloromethane	12 U	12 U	10 U				
1,2-Dibromoethane	12 U	12 U	10 U				
Chlorobenzene	12 U	12 U	10 U				
Ethylbenzene	12 U	12 U	10 U				
Xylenes (total)	12 U	12 U	10 U				
Styrene	12 U	12 U	10 U				
Bromoform	12 U	12 U	10 U				
Isopropylbenzene	12 U	12 U	10 U				
1,1,2,2-Tetrachloroethane	12 U	12 U	10 U				
1,3-Dichlorobenzene	12 U	12 U	10 U				
1,4-Dichlorobenzene	12 U	12 U	10 U				
1,2-Dichlorobenzene	12 U	12 U	10 U				
1,2-Dibromo-3-chloropropane	12 U	12 U	10 U				
1,2,4-Trichlorobenzene	12 U	12 U	10 U				
Sample wt (g):	5.4	4.4	5.5				
%Moisture:	20	6	4				
Dilution Factor:	1	1	1				
Level:	Low	Low	Low				
Number of TIC's:	1	2	3				

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Water Units : ug/L

VOLATILE EPA SAMPLE NUMBER :	FLAG F0-2H1	FLAG F0-2H2	FLAG F0-2H3				
Dichlorodifluoromethane	10 U	10 U	10 U				
Chloromethane	10 U	10 U	10 U				
Vinyl Chloride	10 U	10 U	10 U				
Bromomethane	10 U	10 U	10 U				
Chloroethane	10 U	10 U	10 U				
Trichlorofluoromethane	10 U	10 U	10 U				
1,1-Dichloroethene	10 U	10 U	10 U				
1,1,2-Trichloro-1,2,2-trifluoroethane	10 U	10 U	10 U				
Acetone	10 U	10 U	10 U				
Carbon Disulfide	10 U	10 U	10 U				
Methyl Acetate	10 U	10 U	10 U				
Methylene Chloride	10 U	10 U	10 U				
trans-1,2-Dichloroethene	10 U	10 U	10 U				
Methyl tert-Butyl Ether	10 U	10 U	10 U				
1,1-Dichloroethane	10 U	10 U	10 U				
cis-1,2-Dichloroethene	10 U	10 U	10 U				
2-Butanone	10 U	10 U	10 U				
Chloroform	10 U	10 U	10 U				
1,1,1-Trichloroethane	10 U	10 U	10 U				
Cyclohexane	10 U	10 U	10 U				
Carbon Tetrachloride	10 U	10 U	10 U				
Benzene	10 U	10 U	10 U				
1,2-Dichloroethane	10 U	10 U	10 U				
Trichloroethene	10 U	10 U	10 U				
Methylcyclohexane	10 U	10 U	10 U				
1,2-Dichloropropane	10 U	10 U	10 U				
Bromodichloromethane	10 U	10 U	10 U				
cis-1,3-Dichloropropene	10 U	10 U	10 U				
4-Methyl-2-pentanone	10 U	10 U	10 U				
Toluene	10 U	10 U	10 U				
trans-1,3-Dichloropropene	10 U	10 U	10 U				
1,1,2-Trichloroethane	10 U	10 U	10 U				
Tetrachloroethene	10 U	10 U	10 U				
2-Hexanone	10 U	10 U	10 U				
Dibromochloromethane	10 U	10 U	10 U				
1,2-Dibromoethane	10 U	10 U	10 U				
Chlorobenzene	10 U	10 U	10 U				
Ethylbenzene	10 U	10 U	10 U				
Xylenes (total)	10 U	10 U	10 U				
Styrene	10 U	10 U	10 U				
Bromoform	10 U	10 U	10 U				
Isopropylbenzene	10 U	10 U	10 U				
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U				
1,3-Dichlorobenzene	10 U	10 U	10 U				
1,4-Dichlorobenzene	10 U	10 U	10 U				
1,2-Dichlorobenzene	10 U	10 U	10 U				
1,2-Dibromo-3-chloropropane	10 U	10 U	10 U				
1,2,4-Trichlorobenzene	10 U	10 U	10 U				
Volume (ml) :	5	5	5				
Dilution Factor :	1	1	1				
Number of TIC's :	0	0	0				

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Soil Units: ug/Kg

SEMIVOLATILE EPA SAMPLE NUMBER:	F0-2HD	FLAG	F0-2HF	FLAG	F0-2HG	FLAG	F0-2HH	FLAG	F0-2HJ	FLAG	F0-2HK	FLAG	F0-2HL	FLAG
Benzaldehyde	31	LJ	31	LJ	440	U	410	U	28	LJ	460	U	480	U
Phenol	48	LJ	61	LJ	56	LJ	36	LJ	430	U	460	U	480	U
bis-(2-Chloroethyl) ether	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2-Chlorophenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2-Methylphenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,2'-oxybis(1-Chloropropane)	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Acetophenone	400	U	460	U	440	U	410	U	430	U	460	U	480	U
4-Methylphenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
N-Nitroso-di-n-propylamine	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Hexachloroethane	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Nitrobenzene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Isophorone	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2-Nitrophenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,4-Dimethylphenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
bis(2-Chloroethoxy)methane	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,4-Dichlorophenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Naphthalene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
4-Chloroaniline	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Hexachlorobutadiene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Caprolactam	400	U	460	U	440	U	410	U	430	U	460	U	25	LJ
4-Chloro-3-methylphenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2-Methylnaphthalene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Hexachlorocyclopentadiene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,4,6-Trichlorophenol	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,4,5-Trichlorophenol	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
1,1'-Biphenyl	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2-Chloronaphthalene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2-Nitroaniline	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
Dimethylphthalate	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,6-Dinitrotoluene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Acenaphthylene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
3-Nitroaniline	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
Acenaphthene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,4-Dinitrophenol	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
4-Nitrophenol	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
Dibenzofuran	400	U	460	U	440	U	410	U	430	U	460	U	480	U
2,4-Dinitrotoluene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Diethylphthalate	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Fluorene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
4-Chlorophenyl-phenyl ether	400	U	460	U	440	U	410	U	430	U	460	U	480	U
4-Nitroaniline	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
4,6-Dinitro-2-methylphenol	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
N-Nitrosodiphenylamine	400	U	460	U	440	U	410	U	430	U	460	U	480	U
4-Bromophenyl-phenylether	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Hexachlorobenzene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Atrazine	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Pentachlorophenol	1000	U	1200	U	1100	U	1000	U	1100	U	1200	U	1200	U
Phenanthrene	150	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Anthracene	29	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Carbazole	400	U	460	U	440	U	410	U	430	U	460	U	480	U

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Soil Units : ug/Kg

SEMIVOLATILE EPA SAMPLE NUMBER :	F0-2HD	FLAG	F0-2HF	FLAG	F0-2HG	FLAG	F0-2HH	FLAG	F0-2HJ	FLAG	F0-2HK	FLAG	F0-2HL	FLAG
Di-n-butylphthalate	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Fluoranthene	220	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Pyrene	170	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Butylbenzylphthalate	400	U	460	U	440	U	410	U	430	U	460	U	480	U
3,3'-Dichlorobenzidine	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Benzo(a)anthracene	83	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Chrysene	110	LJ	460	U	440	U	410	U	430	U	460	U	480	U
bis(2-Ethylhexyl)phthalate	25	LJ	24	LJ	37	LJ	410	U	430	U	42	LJ	84	LJ
Di-n-octylphthalate	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Benzo(b)fluoranthene	75	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Benzo(k)fluoranthene	68	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Benzo(a)pyrene	84	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Indeno(1,2,3-cd)pyrene	44	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Dibenzo(a,h)anthracene	400	U	460	U	440	U	410	U	430	U	460	U	480	U
Benzo(g,h,i)perylene	50	LJ	460	U	440	U	410	U	430	U	460	U	480	U
Sample wt (g) :	30.7		30		31.4		31.5		31.7		30.5		30.6	
%Moisture :	19		28		29		23		28		30		33	
Dilution Factor :	1		1		1		1		1		1		1	
Level :	Low		Low		Low		Low		Low		Low		Low	
Number of TIC's :	10		23		24		23		19		15		22	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Soil Units : ug/Kg

SEMIVOLATILE EPA SAMPLE NUMBER :	F0-2HM	FLAG	F0-2HN	FLAG	F0-2HP	FLAG	F0-2HQ	FLAG	F0-2HQRE	FLAG	F0-2HR	FLAG	F0-2HS	FLAG
Benzaldehyde	400	U	410	U	480	U	480	U	46	*	460	U	460	U
Phenol	400	U	410	U	110	LJ	480	U	480	U*	460	U	460	U
bis-(2-Chloroethyl) ether	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2-Chlorophenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2-Methylphenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,2'-oxybis(1-Chloropropane)	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Acetophenone	400	U	410	U	330	LBJ	480	U	85	*	460	U	460	U
4-Methylphenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
N-Nitroso-di-n-propylamine	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Hexachloroethane	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Nitrobenzene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Isophorone	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2-Nitrophenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,4-Dimethylphenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
bis(2-Chloroethoxy)methane	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,4-Dichlorophenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Naphthalene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
4-Chloroaniline	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Hexachlorobutadiene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Caprolactam	59	LJ	410	U	480	U	480	U	480	U*	460	U	460	U
4-Chloro-3-methylphenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2-Methylnaphthalene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Hexachlorocyclopentadiene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,4,6-Trichlorophenol	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,4,5-Trichlorophenol	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
1,1'-Biphenyl	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2-Chloronaphthalene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2-Nitroaniline	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
Dimethylphthalate	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,6-Dinitrotoluene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Acenaphthylene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
3-Nitroaniline	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
Acenaphthene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,4-Dinitrophenol	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
4-Nitrophenol	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
Dibenzofuran	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
2,4-Dinitrotoluene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Diethylphthalate	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Fluorene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
4-Chlorophenyl-phenyl ether	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
4-Nitroaniline	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
4,6-Dinitro-2-methylphenol	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
N-Nitrosodiphenylamine	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
4-Bromophenyl-phenylether	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Hexachlorobenzene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Atrazine	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Pentachlorophenol	1000	U	1000	U	1200	U	1200	U	1200	U*	1200	U	1200	U
Phenanthrene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Anthracene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Carbazole	400	U	410	U	480	U	480	U	480	U*	460	U	460	U

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Soil Units: ug/Kg

SEMIVOLATILE EPA SAMPLE NUMBER:	F0-2HM	FLAG	F0-2HN	FLAG	F0-2HP	FLAG	F0-2HQ	FLAG	F0-2HQRE	FLAG	F0-2HR	FLAG	F0-2HS	FLAG
Di-n-butylphthalate	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Fluoranthene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Pyrene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Butylbenzylphthalate	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
3,3'-Dichlorobenzidine	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Benzo(a)anthracene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Chrysene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
bis(2-Ethylhexyl)phthalate	450		140	LJ	480	U	43	LJ	37	*	46	LJ	76	LJ
Di-n-octylphthalate	400	U	410	U	480	U	480	U	480	U*	110	LJ	460	U
Benzo(b)fluoranthene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Benzo(k)fluoranthene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Benzo(a)pyrene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Indeno(1,2,3-cd)pyrene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Dibenzo(a,h)anthracene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Benzo(g,h,i)perylene	400	U	410	U	480	U	480	U	480	U*	460	U	460	U
Sample wt (g):	30.2		30.1		30.3		30.6		30.6		32		30.8	
%Moisture:	19		19		32		33		33		33		30	
Dilution Factor:	1		1		1		1		1		1		1	
Level:	Low		Low		Low		Low		Low		Low		Low	
Number of TIC's:	22		21		23		24		22		22		22	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Soil Units: ug/Kg

SEMIVOLATILE EPA SAMPLE NUMBER:	F0-2JE	FLAG	F0-2J9	FLAG	F0-2KD	FLAG	F0-2K1	FLAG						
Benzaldehyde	350	U	410	U	280	LBJ	330	U						
Phenol	350	U	410	U	330	U	330	U						
bis-(2-Chloroethyl) ether	350	U	410	U	330	U	330	U						
2-Chlorophenol	350	U	410	U	330	U	330	U						
2-Methylphenol	350	U	410	U	330	U	330	U						
2,2'-oxybis(1-Chloropropane)	350	U	410	U	330	U	330	U						
Acetophenone	350	U	410	U	330	U	330	U						
4-Methylphenol	350	U	410	U	330	U	330	U						
N-Nitroso-di-n-propylamine	350	U	410	U	330	U	330	U						
Hexachloroethane	350	U	410	U	330	U	330	U						
Nitrobenzene	350	U	410	U	330	U	330	U						
Isophorone	350	U	410	U	330	U	330	U						
2-Nitrophenol	350	U	410	U	330	U	330	U						
2,4-Dimethylphenol	350	U	410	U	330	U	330	U						
bis(2-Chloroethoxy)methane	350	U	410	U	330	U	330	U						
2,4-Dichlorophenol	350	U	410	U	330	U	330	U						
Naphthalene	350	U	410	U	330	U	330	U						
4-Chloroaniline	350	U	410	U	330	U	330	U						
Hexachlorobutadiene	350	U	410	U	330	U	330	U						
Caprolactam	350	U	410	U	330	U	330	U						
4-Chloro-3-methylphenol	350	U	410	U	330	U	330	U						
2-Methylnaphthalene	350	U	410	U	330	U	330	U						
Hexachlorocyclopentadiene	350	U	410	U	330	U	330	U						
2,4,6-Trichlorophenol	350	U	410	U	330	U	330	U						
2,4,5-Trichlorophenol	870	U	1000	U	830	U	840	U						
1,1'-Biphenyl	350	U	410	U	330	U	330	U						
2-Chloronaphthalene	350	U	410	U	330	U	330	U						
2-Nitroaniline	870	U	1000	U	830	U	840	U						
Dimethylphthalate	350	U	410	U	330	U	330	U						
2,6-Dinitrotoluene	350	U	410	U	330	U	330	U						
Acenaphthylene	350	U	410	U	330	U	330	U						
3-Nitroaniline	870	U	1000	U	830	U	840	U						
Acenaphthene	350	U	410	U	330	U	330	U						
2,4-Dinitrophenol	870	U	1000	U	830	U	840	U						
4-Nitrophenol	870	U	1000	U	830	U	840	U						
Dibenzofuran	350	U	410	U	330	U	330	U						
2,4-Dinitrotoluene	350	U	410	U	330	U	330	U						
Diethylphthalate	350	U	410	U	330	U	330	U						
Fluorene	350	U	410	U	330	U	330	U						
4-Chlorophenyl-phenyl ether	350	U	410	U	330	U	330	U						
4-Nitroaniline	870	U	1000	U	830	U	840	U						
4,6-Dinitro-2-methylphenol	870	U	1000	U	830	U	840	U						
N-Nitrosodiphenylamine	350	U	410	U	330	U	330	U						
4-Bromophenyl-phenylether	350	U	410	U	330	U	330	U						
Hexachlorobenzene	350	U	410	U	330	U	330	U						
Atrazine	350	U	410	U	330	U	330	U						
Pentachlorophenol	870	U	1000	U	830	U	840	U						
Phenanthrene	350	U	410	U	330	U	330	U						
Anthracene	350	U	410	U	330	U	330	U						
Carbazole	350	U	410	U	330	U	330	U						

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Soil Units : ug/Kg

SEMIVOLATILE EPA SAMPLE NUMBER :	F0-2JE	FLAG	F0-2J9	FLAG	F0-2KD	FLAG	F0-2K1	FLAG			
Di-n-butylphthalate	350	U	410	U	330	U	330	U			
Fluoranthene	350	U	410	U	330	U	330	U			
Pyrene	350	U	410	U	330	U	330	U			
Butylbenzylphthalate	350	U	410	U	330	U	330	U			
3,3'-Dichlorobenzidine	350	U	410	U	330	U	330	U			
Benzo(a)anthracene	350	U	410	U	330	U	330	U			
Chrysene	350	U	410	U	330	U	330	U			
bis(2-Ethylhexyl)phthalate	110	LJ	100	LJ	85	LJ	180	LJ			
Di-n-octylphthalate	350	U	410	U	330	U	330	U			
Benzo(b)fluoranthene	350	U	410	U	330	U	330	U			
Benzo(k)fluoranthene	350	U	410	U	330	U	330	U			
Benzo(a)pyrene	350	U	410	U	330	U	330	U			
Indeno(1,2,3-cd)pyrene	350	U	410	U	330	U	330	U			
Dibenzo(a,h)anthracene	350	U	410	U	330	U	330	U			
Benzo(g,h,i)perylene	350	U	410	U	330	U	330	U			
Sample wt (g) :	30.6		30.1		32.5		31				
%Moisture :	7		20		6		4				
Dilution Factor :	1		1		1		1				
Level :	Low		Low		Low		Low				
Number of TIC's :	22		22		23		22				

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Water Units : ug/L

SEMIVOLATILE EPA SAMPLE NUMBER :	F0-2H1	FLAG	F0-2H2	FLAG	F0-2H3	FLAG								FLAG
Benzaldehyde	10	U	10	U	10	U								
Phenol	10	U	10	U	10	U								
bis-(2-Chloroethyl) ether	10	U	10	U	10	U								
2-Chlorophenol	10	U	10	U	10	U								
2-Methylphenol	10	U	10	U	10	U								
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U								
Acetophenone	10	U	10	U	10	U								
4-Methylphenol	10	U	10	U	10	U								
N-Nitroso-di-n-propylamine	10	U	10	U	10	U								
Hexachloroethane	10	U	10	U	10	U								
Nitrobenzene	10	U	10	U	10	U								
Isophorone	10	U	10	U	10	U								
2-Nitrophenol	10	U	10	U	10	U								
2,4-Dimethylphenol	10	U	10	U	10	U								
bis(2-Chloroethoxy)methane	10	U	10	U	10	U								
2,4-Dichlorophenol	10	U	10	U	10	U								
Naphthalene	10	U	10	U	10	U								
4-Chloroaniline	10	U	10	U	10	U								
Hexachlorobutadiene	10	U	10	U	10	U								
Caprolactam	10	U	10	U	10	U								
4-Chloro-3-methylphenol	0.8	UJ	0.8	UJ	0.7	UJ								
2-Methylnaphthalene	10	U	10	U	10	U								
Hexachlorocyclopentadiene	10	U	10	U	10	U								
2,4,6-Trichlorophenol	10	U	10	U	10	U								
2,4,5-Trichlorophenol	25	U	25	U	25	U								
1,1'-Biphenyl	10	U	10	U	10	U								
2-Chloronaphthalene	10	U	10	U	10	U								
2-Nitroaniline	25	U	25	U	25	U								
Dimethylphthalate	10	U	10	U	10	U								
2,6-Dinitrotoluene	10	U	10	U	10	U								
Acenaphthylene	10	U	10	U	10	U								
3-Nitroaniline	25	U	25	U	25	U								
Acenaphthene	10	U	10	U	10	U								
2,4-Dinitrophenol	25	U	25	U	25	U								
4-Nitrophenol	25	U	25	U	25	U								
Dibenzofuran	10	U	10	U	10	U								
2,4-Dinitrotoluene	10	U	10	U	10	U								
Diethylphthalate	10	U	10	U	10	U								
Fluorene	10	U	10	U	10	U								
4-Chlorophenyl-phenyl ether	10	U	10	U	10	U								
4-Nitroaniline	25	U	25	U	25	U								
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U								
N-Nitrosodiphenylamine	10	U	10	U	10	U								
4-Bromophenyl-phenylether	10	U	10	U	10	U								
Hexachlorobenzene	10	U	10	U	10	U								
Atrazine	10	U	10	U	10	U								
Pentachlorophenol	25	U	25	U	25	U								
Phenanthrene	10	U	10	U	10	U								
Anthracene	10	U	10	U	10	U								
Carbazole	10	U	10	U	10	U								
Di-n-butylphthalate	10	U	10	U	10	U								
Fluoranthene	10	U	10	U	10	U								
Pyrene	10	U	10	U	10	U								
Butylbenzylphthalate	10	U	10	U	10	U								

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Water Units: ug/L

SEMIVOLATILE EPA SAMPLE NUMBER:	F0-2H1	FLAG	F0-2H2	FLAG	F0-2H3	FLAG						FLAG
3,3'-Dichlorobenzidine	10	U	10	U	10	U						
Benzo(a)anthracene	10	U	10	U	10	U						
Chrysene	10	U	10	U	10	U						
bis(2-Ethylhexyl)phthalate	10	U	10	U	10	U						
Di-n-octylphthalate	10	U	10	U	10	U						
Benzo(b)fluoranthene	10	U	10	U	10	U						
Benzo(k)fluoranthene	10	U	10	U	10	U						
Benzo(a)pyrene	10	U	10	U	10	U						
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U						
Dibenzo(a,h)anthracene	10	U	10	U	10	U						
Benzo(g,h,i)perylene	10	U	10	U	10	U						
Volume (ml):	1000		1000		1000							
Dilution Factor:	1		1		1							
Number of TIC's:	1		1		1							

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Soil Units: ug/Kg

PESTICIDES/PCBs EPA SAMPLE NUMBER:	F0-2HD	FLAG	F0-2HF	FLAG	F0-2HG	FLAG	F0-2HH	FLAG	F0-2HJ	FLAG	F0-2HK	FLAG	F0-2HL	FLAG
alpha-BHC	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
beta-BHC	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
delta-BHC	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
gamma-BHC (Lindane)	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
Heptachlor	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.7	UM	2.4	U
Aldrin	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
Heptachlor epoxide	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
Endosulfan I	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
Dieldrin	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
4,4'-DDE	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
Endrin	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
Endosulfan II	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
4,4'-DDD	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
Endosulfan sulfate	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
4,4'-DDT	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
Methoxychlor	20	U	22	U	22	U	21	U	24	U	24	U	24	U
Endrin ketone	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
Endrin aldehyde	3.9	U	4.3	U	4.2	U	4.0	U	4.6	U	4.7	U	4.7	U
alpha-Chlordane	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	2.4	U	2.4	U
gamma-Chlordane	2.0	U	2.2	U	2.2	U	2.1	U	2.4	U	1.3	LJ	1.4	LJ
Toxaphene	200	U	220	U	220	U	210	U	240	U	240	U	240	U
Aroclor-1016	39	U	43	U	42	U	40	U	46	U	47	U	47	U
Aroclor-1221	80	U	88	U	86	U	82	U	93	U	96	U	95	U
Aroclor-1232	39	U	43	U	42	U	40	U	46	U	47	U	47	U
Aroclor-1242	39	U	43	U	42	U	40	U	46	U	47	U	47	U
Aroclor-1248	39	U	43	U	42	U	40	U	46	U	47	U	47	U
Aroclor-1254	39	U	43	U	42	U	40	U	46	U	47	U	47	U
Aroclor-1260	39	U	43	U	42	U	40	U	46	U	47	U	47	U
Sample wt (g):	31		31.8		32.6		31.8		30.1		30		31.6	
%Moisture:	19		28		28		23		28		30		33	
Dilution Factor:	1		1		1		1		1		1		1	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Soil Units : ug/Kg

PESTICIDES/PCBs EPA SAMPLE NUMBER :	F0-2HM	FLAG	F0-2HN	FLAG	F0-2HP	FLAG	F0-2HQ	FLAG	F0-2HR	FLAG	F0-2HS	FLAG	F0-2JE	FLAG
alpha-BHC	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	2.3	U	1.8	U
beta-BHC	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	2.3	U	1.8	U
delta-BHC	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	2.3	U	1.8	U
gamma-BHC (Lindane)	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	2.3	U	1.8	U
Heptachlor	2.1	U	2.1	U	2.6	UM	2.5	U	3.6	UM	2.7	UM	1.8	U
Aldrin	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	2.3	U	1.8	U
Heptachlor epoxide	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	2.3	U	1.8	U
Endosulfan I	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	0.94	LJ	1.8	U
Dieldrin	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
4,4'-DDE	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
Endrin	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
Endosulfan II	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
4,4'-DDD	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
Endosulfan sulfate	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
4,4'-DDT	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
Methoxychlor	21	U	21	U	23	U	25	U	25	U	23	U	18	U
Endrin ketone	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
Endrin aldehyde	4.0	U	4.0	U	4.5	U	4.9	U	4.9	U	4.4	U	3.5	U
alpha-Chlordane	2.1	U	2.1	U	2.3	U	2.5	U	2.5	U	2.3	U	1.8	U
gamma-Chlordane	2.1	U	2.1	U	1.2	LJ	2.5	U	2.5	U	1.6	LJ	1.8	U
Toxaphene	210	U	210	U	230	U	250	U	250	U	230	U	180	U
Aroclor-1016	40	U	40	U	45	U	49	U	49	U	44	U	35	U
Aroclor-1221	81	U	82	U	92	U	99	U	99	U	89	U	70	U
Aroclor-1232	40	U	40	U	45	U	49	U	49	U	44	U	35	U
Aroclor-1242	40	U	40	U	45	U	49	U	49	U	44	U	35	U
Aroclor-1248	40	U	40	U	45	U	49	U	49	U	44	U	35	U
Aroclor-1254	40	U	40	U	45	U	49	U	49	U	44	U	35	U
Aroclor-1260	40	U	40	U	45	U	49	U	49	U	44	U	35	U
Sample wt (g) :	30.6		30.3		32		30.2		30.4		32.2		30.5	
%Moisture :	19		19		32		33		33		30		6	
Dilution Factor :	1		1		1		1		1		1		1	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 28064 SDG: F02H1 Reviewer: N. Gannon

Laboratory: AATS Matrix: Soil Units: ug/Kg

PESTICIDES/PCBs EPA SAMPLE NUMBER:	F0-2J9	FLAG	F0-2KD	FLAG	F0-2K1	FLAG						
alpha-BHC	2.0	U	1.8	U	1.7	U						
beta-BHC	2.0	U	1.8	U	1.7	U						
delta-BHC	2.0	U	1.8	U	1.7	U						
gamma-BHC (Lindane)	2.0	U	1.8	U	1.7	U						
Heptachlor	2.0	U	2.0	UM	2.3	UM						
Aldrin	2.0	U	1.8	U	1.7	U						
Heptachlor epoxide	2.0	U	1.8	U	1.7	U						
Endosulfan I	2.0	U	1.8	U	1.7	U						
Dieldrin	3.8	U	3.5	U	3.3	U						
4,4'-DDE	3.8	U	3.5	U	3.3	U						
Endrin	3.8	U	3.5	U	3.3	U						
Endosulfan II	3.8	U	3.5	U	3.3	U						
4,4'-DDD	3.8	U	3.5	U	3.3	U						
Endosulfan sulfate	3.8	U	3.5	U	3.3	U						
4,4'-DDT	3.8	U	3.5	U	3.3	U						
Methoxychlor	20	U	18	U	17	U						
Endrin ketone	3.8	U	3.5	U	3.3	U						
Endrin aldehyde	3.8	U	3.5	U	3.3	U						
alpha-Chlordane	2.0	U	1.8	U	1.7	U						
gamma-Chlordane	2.0	U	1.8	U	0.94	LJ						
Toxaphene	200	U	180	U	170	U						
Aroclor-1016	38	U	35	U	33	U						
Aroclor-1221	78	U	70	U	68	U						
Aroclor-1232	38	U	35	U	33	U						
Aroclor-1242	38	U	35	U	33	U						
Aroclor-1248	38	U	35	U	33	U						
Aroclor-1254	38	U	35	U	33	U						
Aroclor-1260	38	U	35	U	33	U						
Sample wt (g):	32.3		30.4		30.8							
%Moisture:	20		6		4							
Dilution Factor:	1		1		1							

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No. : 28064 SDG : F02H1 Reviewer : N. Gannon

Laboratory : AATS Matrix : Water Units : ug/L

PESTICIDES/PCBs EPA SAMPLE NUMBER :	F0-2H1	FLAG	F0-2H2	FLAG	F0-2H3	FLAG						
alpha-BHC	0.050	U	0.050	U	0.050	U						
beta-BHC	0.050	U	0.050	U	0.050	U						
delta-BHC	0.050	U	0.050	U	0.050	U						
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U						
Heptachlor	0.050	U	0.050	U	0.050	U						
Aldrin	0.050	U	0.050	U	0.050	U						
Heptachlor epoxide	0.050	U	0.050	U	0.050	U						
Endosulfan I	0.050	U	0.050	U	0.050	U						
Dieldrin	0.10	U	0.10	U	0.10	U						
4,4'-DDE	0.10	U	0.10	U	0.10	U						
Endrin	0.10	U	0.10	U	0.10	U						
Endosulfan II	0.10	U	0.10	U	0.10	U						
4,4'-DDD	0.10	U	0.10	U	0.10	U						
Endosulfan sulfate	0.10	U	0.10	U	0.10	U						
4,4'-DDT	0.10	U	0.10	U	0.10	U						
Methoxychlor	0.50	U	0.50	U	0.50	U						
Endrin ketone	0.10	U	0.10	U	0.10	U						
Endrin aldehyde	0.10	U	0.10	U	0.10	U						
alpha-Chlordane	0.050	U	0.0070	LJ	0.019	LJ						
gamma-Chlordane	0.050	U	0.050	U	0.050	U						
Toxaphene	5.0	U	5.0	U	5.0	U						
Aroclor-1016	1.0	U	1.0	U	1.0	U						
Aroclor-1221	2.0	U	2.0	U	2.0	U						
Aroclor-1232	1.0	U	1.0	U	1.0	U						
Aroclor-1242	1.0	U	1.0	U	1.0	U						
Aroclor-1248	1.0	U	1.0	U	1.0	U						
Aroclor-1254	1.0	U	1.0	U	1.0	U						
Aroclor-1260	1.0	U	1.0	U	1.0	U						
Volume (ml) :	1000		1000		1000							
Dilution Factor :	1		1		1							

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 28064 SDG No. F02H1 SDG Nos. To Follow SAS No. Date Rec 6/01/00

EPA Lab ID: AATS
Lab Location: 1700 West Albany, Broken Arrow, OK 74012
Region: 6 Audit No.: 28064/F02H1
Re_Submitted CSF? Yes _____ No X
Box No(s): 1
COMMENTS:
Item Description

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	X		
12. Dated?	X		
AIRBILLS/AIRBILL STICKER			
13. Present?	X		
14. Signed?	X		
15. Dated?	X		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?	X		
17. Present?	X		
OTHER DOCUMENTS			
18. Complete?	X		
19. Legible?	X		
20. Original?		X	
20a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Nicholas Gannon — Nicholas Gannon/ESAT Data Reviewer — Date 7/19/00
Audited by: _____ — _____ — Date _____
Audited by: _____ — _____ — Date _____
Signature — Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: _____ Date Entered: _____ Date Reviewed: _____
Entered by: _____ _____
Reviewed by: _____ _____
Signature — Printed Name/Title

DC-2

In Reference to Case No(s):
28064 SDG: F02H1 (O-2206)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
FAX Record Log

Laboratory Name:	AATS
Lab Contact:	Harry Borg
Region:	6
Regional Contact:	Mahmoud El-Feky - EPA
ESAT Reviewer:	Nicholas Gannon - LMSG

FAX initiated by: ____Laboratory __X__Region

In reference to data for the following fractions:

CSF Deliverables

Summary of Questions/Issues:

CSF Deliverables

The contract requires that the analysis of low level soil samples by modified SW-846 method 5035 be noted in the SDG Narrative (OLM04.2, p. B-9, sec. 2.6.1). Please resubmit the SDG Narrative to comply with this contractual requirement.

Note: Any laboratory resubmission either should be submitted as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 (SOW OLM04.2, p. B-26, sec. 2.7.3), except those containing only replacement pages. Custody seals are required for all CSF resubmission shipments.

Please respond to the above items <u>within 7 days</u> to:

Mr. Mahmoud El-Feky
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact me at (281) 983-2128.

Marcelyn Humphrey 7/24/00
Signature Date

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

19026

EPA United States Environmental Protection Agency Contract Laboratory Program

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

Case No. 28064

19027 KAD

1. Project Code	Account Code	2. Region No. 6	Sampling Co. TTNRCC	4. Date Shipped 5/16/00	Carrier Airborne Express
Regional Information		Sampler (Name) Marshall Cedilote		Airbill Number 2952378133	
Non-Superfund Program		Sampler Signature Marshall Cedilote		5. Ship To AATS 1700 West Albany, Suite C Broken Arrow, OK 74012 ATTN: Deborah Inman	
Site Name Falcon Refining		3. Purpose* Lead: [ ] SF [ ] PRP [ ] ST [X] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD			
City, State Ingleside, TX	Site Spill ID				

6. 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)

7. 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

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp. Grab	D Preservative (from Box 7) 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 Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
F02H2	4	L	G	5	X				6-188725-726	FB-02	5/16/00/1015	MF00MK	WN	B
F02HR	5	L	G	5	X	X	X		6-188738-742, 744	SE-13	5/16/00/0825	MF00NA	MC	—
F02H1	4	L	G	5	X				6-188988-989	FB-01	5/15/00/1835	MF00MJ	MC	B
F02K1	5	L	G	5	X				6-188868-871	SO-20	5/15/00/1428	MF00PJ	MC	—
F02HP	5	L	G	5	X				6-188701-704	SE-11	5/15/00/1535	MF00N8	MC	—

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	2 of 2			

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Marshall Cedilote	5/16/00/1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-15 REV.

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

EPA Form 9110-2

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

19028

368883

EPA United States Environmental Protection Agency · Contract Laboratory Program

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

Case No. 28064

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		6	TNRCC	5/16/00	Airborne Express

Regional Information

Sampler (Name): Marshall Cedilote

Airbill Number: 2952377934

Non-Superfund Program

Samples Signature: Marshall Cedilote

Site Name: Falcon Refining

City, State: Ingleside, TX

Site Spill ID

3. Purpose*

Lead: [ ] SF [ ] PRP [ ] ST [X] FED

Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI

Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To
AATS
1700 West Albany, Suite C
Broken Arrow, OK 74012
ATTN: Deborah Inman

6. 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)

7. 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

I CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp. Grab	D Preservative (from Box 7) 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 Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
F02H2	5	L	G	5		X	X		6-188864-865	SE-08	5/15/00/1726	MF00N5	MC	—
F02HM	5	L	G	5		X	X		6-188888-889	SE-09	5/16/00/0951	MF00N6	MC	—
F02KD	5	L	G	5		X	X		6-188968-969	SO-32	5/15/00/1836	MF00PY	WN	D(F02JE)
F02H1	4	L	G	5		X	X		6-188990	FB-01	5/15/00/1835	MP00MJ	MC	B
F02H2	4	L	G	5		X	X		6-188727	FB-02	5/16/00/1015	MF00MK	WN	B
F02HP	5	L	G	5		X	X		6-188705-706	SE-11	5/15/00/1535	MF00N8	MC	—
F02K1	5	L	G	5		X	X		6-188872-873	SO-20	5/15/00/1428	MF00PJ	MC	—

Shipment for Case Complete? (Y/N): N

Page 1 of 1

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures

Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/16/00 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-15 REV.

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

EPA Form 9110-2

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

19029

370476

EPA United States Environmental Protection Agency Contract Laboratory Program

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

Case No. 28064

1. Project Code	Account Code	2. Region No. 6	Sampling Co. TNRCC	4. Date Shipped 5/16/00	Carrier Airborne Express
Regional Information		Sampler (Name) Marshall Cedilote		Airbill Number 2952378133	
Non-Superfund Program		Sampler Signature Marshall Cedilote		5. Ship To AATS 1700 West Albany, Suite C Broken Arrow, OK 74012 ATTN: Deborah Inman	
Site Name Falcon Refining		3. Purpose* Lead: [ ] SF [ ] PRP [ ] ST [X] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD			
City, State Ingleside, TX	Site Spill ID				

6. 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)

7. 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

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) 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 Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
F02HK	5	L	G	5	X	X	X		6-188767-772	SE-07	5/15/00/1710	MF00N4	MC	—
F02HL	5	L	G	5	X				6-188860-863	SE-08	5/15/00/1726	MF00N5	MC	—
F02HM	5	L	G	5	X				6-188884-887	SE-09	5/16/00/0951	MF00N6	MC	—
F02HN	5	L	G	5	X	X	X		6-188908-913	SE-10	5/16/00/1011	MF00N7	MC	—
F02HQ	5	L	G	5	X	X	X		6-188791-796	SE-12	5/15/00/1528	MF00N9	MC	D(F02HP)
~~F02HR~~	~~5~~	~~L~~	~~G~~	~~5~~	~~X~~	~~X~~	~~X~~		~~6-188738-743~~	~~SE-13~~	~~5/16/00/0825~~	~~MF00NA~~	~~MC~~	
F02HS	5	L	G	5	X	X	X		6-188828-833	SE-14	5/16/00/0910	MF00NB	MC	—
F02J9	5	L	G	5	X	X	X		6-188629-634	SE-29	5/16/00/0813	MF00NS	MC	—
F02JE	5	L	G	5	X	X	X		6-188541-546	SO-01	5/15/00/1831	MF00NZ	WN	—
F02KD	5	L	G	5	X				6-188964-967	SO-32	5/15/00/1836	MF00PY	WN	D(F02JE)

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			

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/16/00 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-15 REV.

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

EPA Form 9110-2

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

19030

370445

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

Case No. 28064

1. Project Code	2. Region No. 6	Sampling Co. TNRCC	4. Date Shipped 5/17/00
Carrier Airborne Express			
Account Code	Sampler (Name) Wes Newberry	Airbill Number 2952378936	
Site Name Falcon Refining	Sampler Signature [signature]	5. Ship To: AATS 1700 West Albany, Suite C Broken Arrow, OK 74012 ATTN: Deborah Inman	
City, State Ingleside, TX	Site Spill ID	Op Unit	

3. Purpose**: Lead: SF, PRP, ST, [X] FED, BZ; Early Action: IA, PA, REM, RI, SI, [X] ESI; Long-Term Action: RIFS, RD, RA, O&M

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 (14) 21 VOA	TA (circle one) PR* 7 (14) 21 BNA	TA (circle one) PR* 7 (14) 21 Pest/PCB	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 Field QC Qualifier (B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval.)
F02HJ	5	L	C	5	X	X	X	6-188709-714	SE-06	5/16/00/1621	MF00N3	WN	—
F02JA	5	L	C	5	X	X	X	6-188653-658	SE-30	5/16/00/1555	MF00NT	WN	—
F02JB	5	L	C	5	X	X	X	6-188533-538	SE-31	5/16/00/1515	MF00NW	WN	—
F02K6	5	L	G	5	X	X	X	6-188900-905	SO-25	5/16/00/1435	MF00PP	MC	—
F02KA	5	L	G	5	X	X	X	6-189001-006	SO-29	5/16/00/1440	MF00PT	MC	—
F02H3	4	L	G	5	X	X	X	6-188746-748	FB-03	5/17/00/1550	MF00ML	MC	B

Shipment for Case Complete? (Y/N) Page 1 of 1

VOA MS/MSD Required? Y/N Sample #:
BNA MS/MSD Required? Y/N Sample #:
Pest/PCB MS/MSD Required? Y/N Sample #:

Additional Sampler Signatures: Marshall Crabtree

Chain of Custody Seal Number(s)

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/17/00 1830				
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	

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

Original TKM SDG F02JB

19031

389002

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

28064

1. Project Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
	6	TTVRCC	5/17/00	Airborne Express

Account Code

Sampler (Name): Wes Newberry

Airbill Number: 2952378730

Site Name: Falcon Refining

Sampler Signature: [signature]

City, State: Ingleside, TX

Site Spill ID

Op Unit

3. Purpose**
Lead: SF, PRP, ST, [X] FED, BZ
Early Action: IA, PA, REM, RI, SI, [X] ESI
Long-Term Action: RIFS, RD, RA, O&M

5. Ship To:
AATS
1700 West Albany, Suite C
Broken Arrow, OK 74012
ATTN: Deborah Inman

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. PE-water
7. PE-soil
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. CH3OH
7. Other (specify in Column D)
N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp/Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	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 Field QC Qualifier (B = Blank, S = Field Spike, D = Field Duplicate, R = Resale, PE = Perform Eval.)
F02K2	5	L	G	5	X	X	X	6-189009-014	SO-21	5/16/00/1635	MF00PK	MC	—
F02HD	5	L	C	5	X	X	X	6-188501-506 6-189301-302	SE-1	5/16/00/1640	MF00MY	WN	—
F02HF	5	L	C	5	X	X	X	6-188613-618	SE-3	5/16/00/1608	MF00NO	WN	—
F02HG	5	L	C	5	X	X	X	6-188669-674	SE-4	5/16/00/1612	MF00N1	WN	D (F02HF)
F02HH	5	L	C	5	X	X	X	6-188751-756	SE-5	5/16/00/1628	MF00N2	WN	—
F02J0	5	L	C	5	X	X	X	6-188693-694 6-188697-698	SE-20	5/17/00/1000	MF00NH	MC	—
F02J1	5	L	C	5	X	X	X	6-188519-522	SE-21	5/17/00/1036	MF00NJ	MC	—
F02J5	5	L	C	5	X	X	X	6-188783-788	SE-25	5/16/00/1520	MF00NN	MC	—
F02J7	5	L	G	5	X	X	X	6-188549-554	SE-27	5/16/00/1545	MF00NQ	MC	—
F02J8	5	L	C	5	X	X	X	6-188589-594	SE-28	5/16/00/1606	MF00NR	MC	—

Shipment for Case Complete? (Y/N)

Page 1 of 1

VOA MS/MSD Required? (Y/N) Sample #: F02HD; F02J0
BNA MS/MSD Required? (Y/N) Sample #: F02HD; F02J0
Pest/PCB MS/MSD Required? (Y/N) Sample #: F02HD; F02J0

Additional Sampler Signatures: [signature]

Chain of Custody Seal Number(s)

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5-17-00 1830				
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	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

389004

Original TR in SDG Feb 2 JB

19032

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43187.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. _____ Date Analyzed: 05/19/00

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43187.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. _____ Date Analyzed: 05/19/00

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02H1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43187.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. _____ Date Analyzed: 05/19/00

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/L

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

EPA SAMPLE NO.

F02H2

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.02

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43188.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. _____ Date Analyzed: 05/19/00

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H2

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.02

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43188.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. _____ Date Analyzed: 05/19/00

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02H2

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.02

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43188.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. _____ Date Analyzed: 05/19/00

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/L

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

EPA SAMPLE NO.

F02H3

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 43008.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43202.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. _____ Date Analyzed: 05/21/00

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H3

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 43008.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43202.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. _____ Date Analyzed: 05/21/00

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02H3

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 43008.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L43202.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. _____ Date Analyzed: 05/21/00

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/L

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

EPA SAMPLE NO.

F02HD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.02

Sample wt/vol: 5.8 (g/mL) G Lab File ID: N39501.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 19 Date Analyzed: 05/23/00

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
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	1	J
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.02

Sample wt/vol: 5.8 (g/mL) G Lab File ID: N39501.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 19 Date Analyzed: 05/23/00

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
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.02

Sample wt/vol: 5.8 (g/mL) G Lab File ID: N39501.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 19 Date Analyzed: 05/23/00

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

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

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.17	7	J
2.		UNKNOWN	7.97	10	J
3.		UNKNOWN	8.73	9	J
4.		CYCLOTRISILOXANE	11.41	9	BJ
5.		CYCLOTETRASILOXANE	14.19	7	BJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HF

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.03

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N39516.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/24/00

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
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	64	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	21	B
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HF

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.03

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N39516.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/24/00

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
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HF

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.03

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N39516.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/24/00

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

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1066-40-6	SILANOL, TRIMETHYL-	7.92	15	JN
2.	CYCLOTRISILOXANE	11.40	14	BJ
3.	CYCLOTETRASILOXANE	14.17	7	BJ
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HG

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.04

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39502.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/23/00

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
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	5	J
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	33	
75-15-0	Carbon Disulfide	2	J
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	4	BJ
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HG

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.04

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39502.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/23/00

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
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	2	J
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HG

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.04

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39502.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/23/00

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

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

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.96	12	J
2.	UNKNOWN	8.74	6	J
3. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	11.43	10	JN
4.	CYCLOTETRASILOXANE	14.20	16	BJ
5.	UNKNOWN	16.30	6	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HH

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.05

Sample wt/vol: 5.5 (g/mL) G Lab File ID: N39503.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 23 Date Analyzed: 05/23/00

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
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HH

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.05

Sample wt/vol: 5.5 (g/mL) G Lab File ID: N39503.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 23 Date Analyzed: 05/23/00

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
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HH

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.05

Sample wt/vol: 5.5 (g/mL) G Lab File ID: N39503.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 23 Date Analyzed: 05/23/00

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

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.26	14	J
2.	UNKNOWN	8.73	9	J
3.	UNKNOWN	11.42	8	J
4. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	14.19	6	JN
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HJ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: N39504.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/23/00

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
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	2	BJ
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-Butyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HJ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: N39504.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/23/00

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
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HJ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: N39504.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: not dec. 28 Date Analyzed: 05/23/00

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.		UNKNOWN	8.73	8	J
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HK

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.03

Sample wt/vol: 5.1 (g/mL) G Lab File ID: N39443.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 30 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	38	B
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	26	B
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-Butyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HK

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.03

Sample wt/vol: 5.1 (g/mL) G Lab File ID: N39443.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 30 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HK

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.03

Sample wt/vol: 5.1 (g/mL) G Lab File ID: N39443.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 30 Date Analyzed: 05/17/00

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

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.26	10	J
2.	UNKNOWN	8.77	10	J
3. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	11.47	13	JN
4.	CYCLOTETRASILOXANE	14.23	9	BJ
5.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HL

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.04

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N39449.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	10	BJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HL

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.04

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N39449.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HL

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.04

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N39449.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.77	8	J
2.		CYCLOTRISILOXANE	11.46	13	BJ
3.		CYCLOTETRASILOXANE	14.24	8	BJ
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HM

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.05

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39457.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 19 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	4	J
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	6	BJ
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HM

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.05

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39457.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 19 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HM

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.05

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39457.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 19 Date Analyzed: 05/17/00

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

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-18-3	DIMETHYL SULFIDE	4.78	40	JN
2.	UNKNOWN	7.27	9	J
3.	UNKNOWN	8.76	8	J
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HN

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.06

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39464.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 19 Date Analyzed: 05/18/00

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
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	3	J
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	6	BJ
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HN

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.06

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39464.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 19 Date Analyzed: 05/18/00

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
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	2	J
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HN

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.06

Sample wt/vol: 5.6 (g/mL) G Lab File ID: N39464.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 19 Date Analyzed: 05/18/00

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

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

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.25	19	J
2.	UNKNOWN	7.98	12	J
3.	UNKNOWN	8.75	10	J
4.	CYCLOTRISILOXANE	11.44	14	BJ
5. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	14.20	9	JN
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HP

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.07

Sample wt/vol: 4.8 (g/mL) G Lab File ID: N39450.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 32 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	13	BJ
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	11	BJ
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	Methyl-tert-Butyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HP

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.07

Sample wt/vol: 4.8 (g/mL) G Lab File ID: N39450.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 32 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	15	U
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HP

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.07

Sample wt/vol: 4.8 (g/mL) G Lab File ID: N39450.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 32 Date Analyzed: 05/17/00

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

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

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.27	10	J
2.	UNKNOWN	7.98	12	BJ
3.	UNKNOWN	8.77	10	J
4.	CYCLOTRISILOXANE	11.47	15	BJ
5.	CYCLOTETRASILOXANE	14.24	8	BJ
6.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HQ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: N39451.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	18	U
74-87-3	Chloromethane	18	U
75-01-4	Vinyl Chloride	18	U
74-83-9	Bromomethane	18	U
75-00-3	Chloroethane	18	U
75-69-4	Trichlorofluoromethane	18	U
75-35-4	1,1-Dichloroethene	18	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18	U
67-64-1	Acetone	12	BJ
75-15-0	Carbon Disulfide	18	U
79-20-9	Methyl Acetate	18	U
75-09-2	Methylene Chloride	14	BJ
156-60-5	trans-1,2-Dichloroethene	18	U
1634-04-4	Methyl-tert-Butyl Ether	18	U
75-34-3	1,1-Dichloroethane	18	U
156-59-2	cis-1,2-Dichloroethene	18	U
78-93-3	2-Butanone	18	U
67-66-3	Chloroform	18	U
71-55-6	1,1,1-Trichloroethane	18	U
110-82-7	Cyclohexane	18	U
56-23-5	Carbon Tetrachloride	18	U
71-43-2	Benzene	18	U
107-06-2	1,2-Dichloroethane	18	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HQ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: N39451.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	18	U
108-87-2	Methylcyclohexane	18	U
78-87-5	1,2-Dichloropropane	18	U
75-27-4	Bromodichloromethane	18	U
10061-01-5	cis-1,3-Dichloropropene	18	U
108-10-1	4-Methyl-2-Pentanone	18	U
108-88-3	Toluene	18	U
10061-02-6	trans-1,3-Dichloropropene	18	U
79-00-5	1,1,2-Trichloroethane	18	U
127-18-4	Tetrachloroethene	18	U
591-78-6	2-Hexanone	18	U
124-48-1	Dibromochloromethane	18	U
106-93-4	1,2-Dibromoethane	18	U
108-90-7	Chlorobenzene	18	U
100-41-4	Ethylbenzene	18	U
1330-20-7	Xylene (total)	18	U
100-42-5	Styrene	18	U
75-25-2	Bromoform	18	U
98-82-8	Isopropylbenzene	18	U
79-34-5	1,1,2,2-Tetrachloroethane	18	U
541-73-1	1,3-Dichlorobenzene	18	U
106-46-7	1,4-Dichlorobenzene	18	U
95-50-1	1,2-Dichlorobenzene	18	U
96-12-8	1,2-Dibromo-3-chloropropane	18	U
120-82-1	1,2,4-Trichlorobenzene	18	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HQ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08

Sample wt/vol: 4.1 (g/mL) G Lab File ID: N39451.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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

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

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.97	16	BJ
2.		CYCLOTRISILOXANE	11.48	19	BJ
3.		CYCLOTETRASILOXANE	14.24	9	BJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HR

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.09

Sample wt/vol: 4.7 (g/mL) G Lab File ID: N39454.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl Chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	16	U
79-20-9	Methyl Acetate	16	U
75-09-2	Methylene Chloride	9	BJ
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	Methyl-tert-Butyl Ether	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
110-82-7	Cyclohexane	16	U
56-23-5	Carbon Tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HR

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.09

Sample wt/vol: 4.7 (g/mL) G Lab File ID: N39454.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	16	U
108-87-2	Methylcyclohexane	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
1330-20-7	Xylene (total)	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
96-12-8	1,2-Dibromo-3-chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HR

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.09

Sample wt/vol: 4.7 (g/mL) G Lab File ID: N39454.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 33 Date Analyzed: 05/17/00

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.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HS

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.10

Sample wt/vol: 5.2 (g/mL) G Lab File ID: N39455.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 30 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	6	BJ
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-Butyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HS

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.10

Sample wt/vol: 5.2 (g/mL) G Lab File ID: N39455.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 30 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HS

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.10

Sample wt/vol: 5.2 (g/mL) G Lab File ID: N39455.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 30 Date Analyzed: 05/17/00

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. 75-18-3	DIMETHYL SULFIDE	4.79	97	JN
2.				
3.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02J9

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.11

Sample wt/vol: 5.4 (g/mL) G Lab File ID: N39456.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 20 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	6	BJ
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02J9

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.11

Sample wt/vol: 5.4 (g/mL) G Lab File ID: N39456.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 20 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02J9

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.11

Sample wt/vol: 5.4 (g/mL) G Lab File ID: N39456.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 20 Date Analyzed: 05/17/00

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.	CYCLOTRISILOXANE	11.46	6	BJ
2.				
3.				
4.				
5.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02JE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.12

Sample wt/vol: 4.2 (g/mL) G Lab File ID: N39452.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 6 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	9	BJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02JE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.12

Sample wt/vol: 4.2 (g/mL) G Lab File ID: N39452.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 6 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02JE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.12

Sample wt/vol: 4.2 (g/mL) G Lab File ID: N39452.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 6 Date Analyzed: 05/17/00

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.	CYCLOTRISILOXANE	11.48	10	BJ
2.	CYCLOTETRASILOXANE	14.24	7	BJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02K1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.13

Sample wt/vol: 5.5 (g/mL) G Lab File ID: N39442.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 4 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	24	B
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02K1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.13

Sample wt/vol: 5.5 (g/mL) G Lab File ID: N39442.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 4 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02K1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.13

Sample wt/vol: 5.5 (g/mL) G Lab File ID: N39442.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 4 Date Analyzed: 05/17/00

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

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	CYCLOTRISILOXANE	11.48	7	BJ
2.	CYCLOTETRASILOXANE	14.24	6	BJ
3.	UNKNOWN	16.34	5	BJ
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02KD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.14

Sample wt/vol: 4.4 (g/mL) G Lab File ID: N39453.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 6 Date Analyzed: 05/17/00

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
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	4	J
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	9	BJ
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02KD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.14

Sample wt/vol: 4.4 (g/mL) G Lab File ID: N39453.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 6 Date Analyzed: 05/17/00

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
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02KD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.14

Sample wt/vol: 4.4 (g/mL) G Lab File ID: N39453.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: not dec. 6 Date Analyzed: 05/17/00

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.	UNKNOWN	8.78	8	J
2.	CYCLOTRISILOXANE	11.47	8	BJ
3.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051916.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.6 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	0.8	J
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051916.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.6 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02H1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051916.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.6 Extraction: (Type) CONT EX

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.15	5	BJ
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H2

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051917.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	0.8	J
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H2

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051917.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3 Extraction: (Type) CONT EX

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

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02H2

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051917.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3 Extraction: (Type) CONT EX

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.16	4	BJ
2.				
3.				
4.				
5.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H3

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 43008.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051918.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	0.7	J
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H3

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 43008.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051918.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02H3

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 43008.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V0051918.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) CONT EX

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.15	4	BJ
2.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.02

Sample wt/vol: 30.7 (g/mL) G Lab File ID: H0052613.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	31	J
108-95-2	Phenol	48	J
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.02

Sample wt/vol: 30.7 (g/mL) G Lab File ID: H0052613.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	29	J
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	170	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	83	J
218-01-9	Chrysene	110	J
117-81-7	bis(2-Ethylhexyl)phthalate	25	J
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	75	J
207-08-9	Benzo(k)fluoranthene	68	J
50-32-8	Benzo(a)pyrene	84	J
193-39-5	Indeno(1,2,3-cd)pyrene	44	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	50	J

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.02

Sample wt/vol: 30.7 (g/mL) G Lab File ID: H0052613.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

Number TICs found: 10

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	3.71	7400	ABJN
2.	UNKNOWN ORGANIC ACID	10.62	310	BJ
3.	UNKNOWN AMIDE	16.55	140	J
4.	UNKNOWN	16.70	97	BJ
5.	UNKNOWN	17.19	84	J
6. 192-97-2	BENZO[E]PYRENE	19.36	83	JN
7.	UNKNOWN	20.39	100	J
8.	UNKNOWN	21.02	90	J
9.	UNKNOWN	21.33	99	J
10.	UNKNOWN	22.65	86	BJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HF

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H0052616.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	31	J
108-95-2	Phenol	61	J
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	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-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HF

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H0052616.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	460	U
129-00-0	Pyrene	460	U
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	24	J
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	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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HF

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H0052616.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.71	6300	ABJN
2.	UNKNOWN	4.81	340	BJ
3.	UNKNOWN	6.07	210	J
4. 112-53-8	1-DODECANOL	10.49	170	JN
5.	UNKNOWN ORGANIC ACID	10.62	110	BJ
6. 57-10-3	HEXADECANOIC ACID	14.09	140	JN
7.	UNKNOWN AMIDE	14.23	130	J
8.	UNKNOWN AMIDE	15.40	190	BJ
9.	UNKNOWN AMIDE	15.50	290	J
10.	UNKNOWN AMIDE	16.56	3400	J
11.	UNKNOWN AMIDE	16.68	200	J
12.	UNKNOWN	17.16	100	J
13.	UNKNOWN	19.40	190	J
14.	UNKNOWN	19.89	160	J
15.	UNKNOWN	20.06	140	J
16. 56781-96-5	TRICYCLO[3.3.1.13,7]DECANE-2	20.22	200	JN
17.	UNKNOWN	20.29	140	J
18.	UNKNOWN	20.39	99	J
19.	UNKNOWN	20.64	120	J
20.	UNKNOWN	21.04	120	J
21.	UNKNOWN	21.40	150	J
22.	UNKNOWN	21.77	200	J
23.	UNKNOWN	22.65	1100	BJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HG

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.04

Sample wt/vol: 31.4 (g/mL) G Lab File ID: H0052617.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	56	J
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	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-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HG

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.04

Sample wt/vol: 31.4 (g/mL) G Lab File ID: H0052617.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
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	37	J
117-84-0	Di-n-octylphthalate	440	U
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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HG

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.04

Sample wt/vol: 31.4 (g/mL) G Lab File ID: H0052617.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.71	6000	ABJN
2.	UNKNOWN	4.44	110	BJ
3.	UNKNOWN	4.81	260	BJ
4. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.96	470	JN
5.	UNKNOWN	6.07	210	J
6.	UNKNOWN ORGANIC ACID	10.62	110	BJ
7. 112-41-4	1-DODECENE	12.23	380	JN
8.	UNKNOWN	14.49	110	J
9.	UNKNOWN AMIDE	15.40	220	BJ
10. 629-54-9	HEXADECANAMIDE	15.50	360	JN
11.	UNKNOWN AMIDE	16.55	3700	J
12.	UNKNOWN AMIDE	16.68	260	J
13. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHAT	16.79	810	JN
14.	UNKNOWN	16.85	170	J
15.	UNKNOWN	17.16	130	J
16.	UNKNOWN	19.40	200	J
17.	UNKNOWN	19.89	130	J
18.	UNKNOWN	20.20	120	J
19. 35911-16-1	2-HEXENE, 1-CHLORO-	20.28	200	JN
20.	UNKNOWN	20.40	110	J
21.	UNKNOWN	20.65	120	J
22.	UNKNOWN	21.04	400	J
23.	UNKNOWN	21.77	140	J
24. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	22.65	1800	JN
25.				
26.				
27.				
28.				
29.				
30.				

19110

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HH

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.05

Sample wt/vol: 31.5 (g/mL) G Lab File ID: H0052618.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 23 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	36	J
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HH

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.05

Sample wt/vol: 31.5 (g/mL) G Lab File ID: H0052618.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 23 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HH

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.05

Sample wt/vol: 31.5 (g/mL) G Lab File ID: H0052618.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 23 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.71	6200	ABJN
2.	UNKNOWN	4.80	240	BJ
3.	UNKNOWN	6.07	140	J
4. 872-05-9	1-DECENE	10.49	120	BJN
5.	UNKNOWN AMIDE	14.23	100	J
6.	UNKNOWN	14.91	86	J
7.	UNKNOWN AMIDE	15.40	140	BJ
8. 629-54-9	HEXADECANAMIDE	15.50	280	JN
9. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.56	3300	BJN
10.	UNKNOWN	16.68	190	BJ
11.	UNKNOWN	19.16	85	J
12. 93989-00-5	2-ETHOXY-1-METHYL-6-OXO-1,2-	19.28	120	JN
13. 534-22-5	FURAN, 2-METHYL-	19.41	200	JN
14.	3-(2,6-DIMETHOXYPHENYL)-2-ME	19.89	160	JN
15.	UNKNOWN	20.04	120	J
16.	UNKNOWN	20.27	230	J
17.	UNKNOWN	20.39	180	J
18.	UNKNOWN	20.56	120	J
19.	UNKNOWN	21.04	110	J
20. 2117-47-7	STANNANE, ETHENYLTRIETHYL-	21.34	140	JN
21.	UNKNOWN	21.39	140	J
22.	UNKNOWN	21.75	200	J
23.	UNKNOWN	22.64	1200	BJ
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HJ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.06

Sample wt/vol: 31.7 (g/mL) G Lab File ID: H0052619.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	28	J
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HJ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.06

Sample wt/vol: 31.7 (g/mL) G Lab File ID: H0052619.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
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	430	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HJ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.06

Sample wt/vol: 31.7 (g/mL) G Lab File ID: H0052619.D

Level: (low/med) LOW Date Received: 05/18/00

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/26/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.71	6100	ABJN
2.	UNKNOWN	4.45	90	BJ
3.	UNKNOWN	4.81	230	BJ
4.	UNKNOWN	6.07	190	J
5. 36653-82-4	1-HEXADECANOL	13.98	120	JN
6. 57-10-3	HEXADECANOIC ACID	14.08	140	JN
7.	UNKNOWN AMIDE	14.22	130	J
8.	UNKNOWN AMIDE	15.40	180	BJ
9.	UNKNOWN AMIDE	15.50	240	J
10.	UNKNOWN AMIDE	16.55	3400	J
11.	UNKNOWN	19.40	240	J
12.	UNKNOWN	19.89	120	J
13.	UNKNOWN	20.20	110	J
14.	UNKNOWN	20.29	94	J
15.	UNKNOWN	20.40	150	J
16.	UNKNOWN	21.04	140	J
17.	UNKNOWN	21.34	100	J
18.	UNKNOWN	21.63	97	J
19. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	22.65	920	JN
20.				
21.				
22.				
23.				
24.				
25.				
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27.				
28.				
29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HK

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.03

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H0052419.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 30 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	47	BJ
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	58	BJ
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-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HK

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.03

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H0052419.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 30 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		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
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	460	U
129-00-0	Pyrene	460	U
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	42	J
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	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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HK

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.03

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H0052419.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 30 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Extraction: (Type) SONC

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	3.81	11000	AJN
2.	UNKNOWN	3.88	120	J
3.	UNKNOWN	4.49	120	BJ
4.	UNKNOWN	4.88	1100	J
5.	UNKNOWN	5.01	100	J
6.	UNKNOWN	5.64	170	J
7.	UNKNOWN	6.16	360	J
8.	UNKNOWN	16.75	100	J
9.	UNKNOWN	19.78	120	J
10.	UNKNOWN	20.30	140	J
11.	UNKNOWN	20.39	160	J
12.	UNKNOWN	20.53	110	J
13.	UNKNOWN	20.66	120	J
14.	UNKNOWN	20.75	97	J
15.	UNKNOWN	21.14	170	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HL

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.04

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052522.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	74	BJ
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	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-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	25	J
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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HL

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.04

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052522.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	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
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	84	J
117-84-0	Di-n-octylphthalate	480	U
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 seperated from Diphenylamine.

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HL

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.04

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052522.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.74	9600	ABJN
2.	UNKNOWN	4.42	400	BJ
3.	UNKNOWN	4.82	1000	BJ
4. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.61	1800	JN
5.	UNKNOWN	19.33	300	J
6.	UNKNOWN	19.85	310	J
7.	UNKNOWN	19.95	520	J
8.	UNKNOWN	20.08	570	J
9. 2365-40-4	1H-PURIN-6-AMINE, N-(3-METHY	20.17	310	JN
10.	UNKNOWN	20.25	460	J
11.	UNKNOWN	20.33	840	J
12. 57-88-5	CHOLESTEROL	20.44	710	JN
13.	UNKNOWN	20.49	510	J
14.	UNKNOWN	20.63	670	J
15.	UNKNOWN	20.69	530	J
16.	UNKNOWN	20.95	690	J
17.	UNKNOWN	21.10	800	J
18.	UNKNOWN	21.14	350	J
19.	UNKNOWN	21.21	320	J
20.	UNKNOWN	21.38	550	J
21.	UNKNOWN	21.47	680	J
22.	UNKNOWN	22.74	330	BJ
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HM

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: H0052420.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	56	BJ
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	68	BJ
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	59	J
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HM

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: H0052420.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	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	460	
117-84-0	Di-n-octylphthalate	400	U
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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HM

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: H0052420.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Extraction: (Type) SONC

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.81	8500	AJN
2.	UNKNOWN	3.89	89	J
3.	UNKNOWN	4.89	590	J
4.	UNKNOWN	6.16	510	J
5.	UNKNOWN	9.23	85	J
6.	UNKNOWN	10.02	85	J
7. 1002-84-2	PENTADECANOIC ACID	13.51	94	JN
8. 84-74-2	DIBUTYL PHTHALATE	13.67	150	JN
9. 109-29-5	OXACYCLOHEPTADECAN-2-ONE	14.07	370	JN
10. 57-10-3	HEXADECANOIC ACID	14.19	390	JN
11.	UNKNOWN AMIDE	15.50	180	J
12. 1120-16-7	DODECANAMIDE	15.60	210	BJN
13. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.65	1900	JN
14.	UNKNOWN AMIDE	16.77	87	J
15.	UNKNOWN	18.95	83	J
16.	UNKNOWN	19.50	89	J
17.	UNKNOWN	20.12	94	J
18.	UNKNOWN	20.38	120	J
19.	UNKNOWN	20.50	160	J
20.	UNKNOWN	20.64	83	J
21.	UNKNOWN	20.71	100	J
22. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	22.82	570	JN
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

19125

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HN

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.06

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H0052421.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	48	BJ
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	56	BJ
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HN

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.06

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H0052421.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	140	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HN

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.06

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H0052421.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.81	9700	AJN
2.	UNKNOWN	3.89	98	J
3.	UNKNOWN	4.69	220	J
4.	UNKNOWN	4.89	660	J
5.	UNKNOWN	6.17	440	J
6.	UNKNOWN	9.24	98	J
7.	UNKNOWN	10.03	90	J
8. 544-63-8	TETRADECANOIC ACID	13.51	110	JN
9. 84-74-2	DIBUTYL PHTHALATE	13.67	350	JN
10. 112-80-1	OLEIC ACID	14.08	360	JN
11. 57-10-3	HEXADECANOIC ACID	14.19	360	JN
12.	UNKNOWN AMIDE	14.33	99	J
13.	UNKNOWN	15.34	87	J
14.	UNKNOWN AMIDE	15.50	170	J
15. 629-54-9	HEXADECANAMIDE	15.60	250	JN
16. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.66	2600	JN
17.	UNKNOWN AMIDE	16.77	130	J
18.	UNKNOWN	20.39	90	J
19.	UNKNOWN	20.50	150	J
20.	UNKNOWN	21.54	130	J
21.	UNKNOWN	22.81	870	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

19128

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HP

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.07

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H0052908.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/26/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/29/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	BJ
108-95-2	Phenol	110	J
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	330	BJ
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-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HP

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.07

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H0052908.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/26/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/29/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	120	BJ
117-84-0	Di-n-octylphthalate	480	U
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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HP

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.07

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H0052908.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/26/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/29/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.56	200	J
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.69	20000	ABJN
3.	UNKNOWN	4.40	330	BJ
4.	UNKNOWN	4.75	1300	J
5.	UNKNOWN	16.61	290	BJ
6.	UNKNOWN	17.11	370	BJ
7.	UNKNOWN	18.80	160	BJ
8.	UNKNOWN	18.95	150	J
9. 612-71-5	1,1':3',1''-TERPHENYL, 5'-PH	19.50	230	JN
10. 32286-94-5	1H-INDAZOLE, 4,5,6,7-TETRAHY	20.15	150	JN
11.	UNKNOWN	20.35	210	J
12.	UNKNOWN	20.48	420	BJ
13.	UNKNOWN	20.58	220	J
14.	UNKNOWN	20.65	250	J
15.	UNKNOWN	20.83	150	J
16.	UNKNOWN	20.93	150	J
17.	UNKNOWN	20.96	390	J
18. 54932-90-0	NAPHTHALENE, DECAHYDRO-1,6-B	21.29	260	JN
19.	UNKNOWN	21.34	280	J
20.	UNKNOWN	21.64	1300	J
21.	UNKNOWN	21.68	690	J
22.	UNKNOWN	21.83	170	BJ
23.	UNKNOWN	22.55	230	BJ
24.				
25.				
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27.				
28.				
29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HQ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052423.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	46	BJ
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	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-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HQ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052423.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	43	J
117-84-0	Di-n-octylphthalate	480	U
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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HQ

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052423.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.68	530	J
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.81	11000	AJN
3.	UNKNOWN	4.88	910	J
4.	UNKNOWN	5.63	310	J
5.	UNKNOWN	6.16	370	J
6. 872-05-9	1-DECENE	10.58	190	JN
7.	UNKNOWN HYDROCARBON	12.32	170	J
8. 2091-29-4	9-HEXADECENOIC ACID	14.07	110	JN
9. 57-10-3	HEXADECANOIC ACID	14.18	220	JN
10.	UNKNOWN AMIDE	15.49	190	J
11.	UNKNOWN AMIDE	15.59	290	J
12. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.65	2800	JN
13.	UNKNOWN	16.75	210	J
14. 832-01-9	2-PROPENOIC ACID, 3-(4-METHO	19.51	160	JN
15.	UNKNOWN	20.29	110	J
16.	UNKNOWN	20.38	110	J
17.	UNKNOWN	20.49	230	J
18.	UNKNOWN	21.17	390	J
19.	1,2-DIMETHOXY-4-(2-PROPENYLO	21.28	130	JN
20.	UNKNOWN	21.46	170	J
21.	UNKNOWN	21.90	270	J
22.	UNKNOWN	22.26	130	J
23.	UNKNOWN	22.81	390	J
24.	UNKNOWN	23.12	130	J
25.				
26.				
27.				
28.				
29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HQRE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08RA

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052909.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/29/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	46	BJ
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	85	BJ
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-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

19135

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HQRE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08RA

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052909.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/29/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	37	J
117-84-0	Di-n-octylphthalate	480	U
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 seperated from Diphenylamine

19136

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HQRE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08RA

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052909.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/29/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.69	11000	ABJN
2.	UNKNOWN	4.75	880	BJ
3.	UNKNOWN	5.48	260	J
4.	UNKNOWN AMIDE	16.51	1300	J
5.	UNKNOWN	16.80	920	J
6.	UNKNOWN	17.12	510	J
7. 5113-87-1	CYCLOHEXENE, 3-METHYL-6-(1-M	17.22	700	JN
8.	UNKNOWN	19.52	260	J
9.	UNKNOWN	19.97	260	J
10.	UNKNOWN	20.14	570	J
11.	UNKNOWN	20.23	260	J
12.	UNKNOWN	20.48	680	J
13.	UNKNOWN	20.59	670	J
14.	UNKNOWN	20.99	1200	J
15.	UNKNOWN	21.29	270	J
16.	UNKNOWN	21.35	340	J
17.	UNKNOWN	21.39	570	J
18.	UNKNOWN	21.63	350	J
19.	UNKNOWN	21.68	560	J
20.	UNKNOWN	21.80	480	J
21.	UNKNOWN	22.24	550	J
22.	UNKNOWN	22.56	540	J
23.				
24.				
25.				
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30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HR

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.09

Sample wt/vol: 32.0 (g/mL) G Lab File ID: H0052424.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	83	BJ
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	78	BJ
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-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HR

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.09

Sample wt/vol: 32.0 (g/mL) G Lab File ID: H0052424.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	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
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	460	U
129-00-0	Pyrene	460	U
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	46	J
117-84-0	Di-n-octylphthalate	110	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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HR

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.09

Sample wt/vol: 32.0 (g/mL) G Lab File ID: H0052424.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 33 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.80	11000	AJN
2.	UNKNOWN	5.64	250	J
3.	UNKNOWN	6.17	410	J
4. 2091-29-4	9-HEXADECENOIC ACID	14.07	230	JN
5. 57-10-3	HEXADECANOIC ACID	14.18	430	JN
6. 112-80-1	OLEIC ACID	15.33	180	JN
7.	UNKNOWN AMIDE	15.49	230	J
8.	UNKNOWN AMIDE	15.59	340	J
9. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.65	3100	JN
10.	UNKNOWN AMIDE	16.76	300	J
11.	UNKNOWN	19.10	240	J
12.	UNKNOWN	19.49	300	J
13.	UNKNOWN	19.99	240	J
14.	UNKNOWN	20.37	200	J
15. 57-88-5	CHOLESTEROL	20.49	460	JN
16.	UNKNOWN	21.16	1000	J
17.	UNKNOWN	21.29	210	J
18.	UNKNOWN	21.45	460	J
19.	UNKNOWN	21.54	530	J
20.	UNKNOWN	21.90	390	J
21.	UNKNOWN	22.57	180	J
22.	UNKNOWN	22.81	450	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

19140

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HS

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.10

Sample wt/vol: 30.8 (g/mL) G Lab File ID: H0052517.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 30 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	35	BJ
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	33	BJ
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-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	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-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HS

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.10

Sample wt/vol: 30.8 (g/mL) G Lab File ID: H0052517.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 30 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	460	U
129-00-0	Pyrene	460	U
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	76	J
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	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 seperated from Diphenylamine

19142

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02HS

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.10

Sample wt/vol: 30.8 (g/mL) G Lab File ID: H0052517.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 30 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.9 Extraction: (Type) SONC

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.56	810	J
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.73	5800	ABJN
3.	UNKNOWN	4.82	530	BJ
4.	UNKNOWN	5.55	270	J
5.	UNKNOWN	6.09	220	J
6. 57-10-3	HEXADECANOIC ACID	14.13	170	JN
7. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.60	920	JN
8.	UNKNOWN	19.44	130	J
9.	UNKNOWN	19.93	180	J
10.	UNKNOWN	20.06	150	J
11.	UNKNOWN	20.23	250	J
12.	UNKNOWN	20.32	220	J
13. 57-88-5	CHOLESTEROL	20.43	520	JN
14.	UNKNOWN	20.58	150	J
15.	UNKNOWN	20.68	140	J
16.	UNKNOWN	20.76	140	J
17.	UNKNOWN	21.09	1000	J
18.	UNKNOWN	21.36	160	J
19.	UNKNOWN	21.46	270	J
20.	UNKNOWN	21.75	140	J
21.	UNKNOWN	21.81	370	J
22.	UNKNOWN	22.70	220	BJ
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

19143

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02J9

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.11

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H0052518.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	39	BJ
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	55	BJ
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02J9

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.11

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H0052518.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	100	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02J9

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.11

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H0052518.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.58	170	J
2.	UNKNOWN	3.60	220	J
3. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.75	8500	ABJN
4.	UNKNOWN	4.82	580	BJ
5.	UNKNOWN	6.09	290	J
6. 872-05-9	1-DECENE	10.53	270	JN
7.	UNKNOWN AMIDE	15.45	170	J
8. 629-54-9	HEXADECANAMIDE	15.55	250	JN
9. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.60	2400	JN
10. 80166-82-1	3-HYDROXY-4-(METHYLSULPHONYL	19.05	120	JN
11.	UNKNOWN	19.44	270	J
12.	UNKNOWN	19.94	140	J
13.	UNKNOWN	20.24	200	J
14.	UNKNOWN	20.32	150	J
15.	UNKNOWN	20.58	190	J
16.	UNKNOWN	20.68	150	J
17.	UNKNOWN	20.76	150	J
18. 1898-13-1	1,3,6,10-CYCLOTETRADECATETRA	21.09	1000	JN
19.	UNKNOWN	21.51	120	J
20.	UNKNOWN	21.81	240	J
21.	UNKNOWN	21.94	110	J
22.	UNKNOWN	22.70	500	BJ
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

19146

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02JE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.12

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052519.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 7 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	28	BJ
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
98-86-2	Acetophenone	33	BJ
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
105-60-2	Caprolactam	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	870	U
92-52-4	1,1'-Biphenyl	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	870	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	870	U
83-32-9	Acenaphthene	350	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02JE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.12

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052519.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 7 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	870	U
100-02-7	4-Nitrophenol	870	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	870	U
534-52-1	4,6-Dinitro-2-methylphenol	870	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
1912-24-9	Atrazine	350	U
87-86-5	Pentachlorophenol	870	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	110	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02JE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.12

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H0052519.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 7 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 22

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.57	530	J
2.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.74	6300	ABJN
3.		UNKNOWN	4.43	80	BJ
4.		UNKNOWN	6.09	230	J
5.	57-10-3	HEXADECANOIC ACID	14.11	80	JN
6.		UNKNOWN AMIDE	15.42	170	J
7.		UNKNOWN AMIDE	15.52	190	J
8.		UNKNOWN	16.02	86	J
9.	301-02-0	9-OCTADECENAMIDE, (Z)-	16.58	1900	JN
10.		UNKNOWN	16.88	82	J
11.		UNKNOWN	20.05	88	J
12.		UNKNOWN	20.41	91	J
13.		UNKNOWN	20.90	180	J
14.	14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	21.03	1300	JN
15.		UNKNOWN	21.25	120	J
16.		UNKNOWN	21.34	160	J
17.		UNKNOWN	21.45	96	J
18.		UNKNOWN	21.78	140	J
19.		UNKNOWN	21.90	150	J
20.		UNKNOWN PAH	22.05	300	J
21.		UNKNOWN	22.13	83	J
22.		UNKNOWN	22.66	220	BJ
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02K1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.13

Sample wt/vol: 31.0 (g/mL) G Lab File ID: H0052520.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	31	BJ
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	29	BJ
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	840	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02K1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.13

Sample wt/vol: 31.0 (g/mL) G Lab File ID: H0052520.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	840	U
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	840	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	180	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 seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02K1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.13

Sample wt/vol: 31.0 (g/mL) G Lab File ID: H0052520.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.57	1900	J
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.74	4900	ABJN
3.	UNKNOWN	4.43	240	BJ
4.	UNKNOWN	4.61	280	BJ
5.	UNKNOWN	4.82	330	BJ
6.	UNKNOWN	6.09	260	J
7. 57-10-3	HEXADECANOIC ACID	14.12	160	JN
8. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.59	1300	JN
9.	UNKNOWN	19.92	150	J
10.	UNKNOWN	20.06	180	J
11.	UNKNOWN	20.23	160	J
12.	UNKNOWN	20.32	260	J
13.	UNKNOWN	20.42	200	J
14.	UNKNOWN	20.59	190	J
15.	UNKNOWN	20.92	180	J
16.	UNKNOWN	21.06	230	J
17. 83-47-6	.GAMMA.-SITOSTEROL	21.36	290	JN
18.	UNKNOWN	21.50	250	J
19.	UNKNOWN	21.80	160	J
20.	UNKNOWN	22.16	270	J
21.	UNKNOWN	22.73	2100	BJ
22.	UNKNOWN	23.28	2800	J
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02KD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.14

Sample wt/vol: 32.5 (g/mL) G Lab File ID: H0052521.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	280	BJ
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	22	BJ
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02KD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.14

Sample wt/vol: 32.5 (g/mL) G Lab File ID: H0052521.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	85	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 seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F02KD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.14

Sample wt/vol: 32.5 (g/mL) G Lab File ID: H0052521.D

Level: (low/med) LOW Date Received: 05/17/00

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/18/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.57	440	J
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.73	5000	ABJN
3.	UNKNOWN	4.61	250	BJ
4. 112-70-9	1-TRIDECANOL	10.53	210	JN
5. 57-10-3	HEXADECANOIC ACID	14.14	150	JN
6.	UNKNOWN AMIDE	15.45	100	J
7. 629-54-9	HEXADECANAMIDE	15.55	110	JN
8.	UNKNOWN AMIDE	16.61	850	BJ
9.	UNKNOWN	19.94	120	J
10.	UNKNOWN	20.07	110	J
11.	UNKNOWN	20.33	290	J
12.	UNKNOWN	20.43	130	J
13.	UNKNOWN	20.94	160	J
14. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	21.05	1400	JN
15.	UNKNOWN	21.16	100	J
16.	UNKNOWN	21.29	120	J
17. 83-47-6	.GAMMA.-SITOSTEROL	21.38	220	JN
18.	UNKNOWN	21.65	190	J
19.	UNKNOWN	21.82	130	J
20.	UNKNOWN	21.93	110	J
21.	UNKNOWN	22.09	260	J
22.	UNKNOWN	22.17	100	J
23.	UNKNOWN	22.71	370	BJ
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 05/17/00

Extraction: (Type) SEPF Date Extracted: 05/20/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/23/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.014	PJB
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H2

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 42990.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 05/17/00

Extraction: (Type) SEPF Date Extracted: 05/20/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/23/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.014	PJB
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.0070	PJ
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HK

ab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.03

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

% Moisture: 30 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	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	2.7	B
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	4.7	U
72-55-9	4,4'-DDE	4.7	U
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	1.3	PJ
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HL

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.04

Sample wt/vol: 31.6 (g/mL) G Lab File ID: _____

% Moisture: 33 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(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	2.4	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	2.2	PJB
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	4.7	U
72-55-9	4,4'-DDE	4.7	U
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	1.4	PJ
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	95	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HM

ab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.05

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(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	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	1.9	PJB
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	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	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HN

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.06

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(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	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.0	JB
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HP

ab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.07

Sample wt/vol: 32.0 (g/mL) G Lab File ID:

% Moisture: 32 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	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	2.6	B
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	1.2	PJ
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HQ

ab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.08

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 33 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	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	2.0	PJB
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	99	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	49	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HR

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.09

Sample wt/vol: 30.4 (g/mL) G Lab File ID:

% Moisture: 33 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(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	2.5	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	3.6	B
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	99	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	49	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HS

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.10

Sample wt/vol: 32.2 (g/mL) G Lab File ID: _____

% Moisture: 30 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.9 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	2.7	B
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	0.94	PJ
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	1.6	PJ
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02J9

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.11

Sample wt/vol: 32.3 (g/mL) G Lab File ID:

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	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	1.8	JB
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	38	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02JE

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.12

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.6	JB
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02K1

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.13

Sample wt/vol: 30.8 (g/mL) G Lab File ID:

% Moisture: 4 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(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	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	2.3	B
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	0.94	PJ
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	68	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02KD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 42990.14

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/17/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	2.0	B
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02H3

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) WATER Lab Sample ID: 43008.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 05/18/00

Extraction: (Type) SEPF Date Extracted: 05/20/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/23/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.014	PJB
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.019	PJ
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HD

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.02

Sample wt/vol: 31.0 (g/mL) G Lab File ID: _____

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/18/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	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	1.0	PJB
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HF

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.03

Sample wt/vol: 31.8 (g/mL) G Lab File ID:

% Moisture: 28 Decanted: (Y/N) N Date Received: 05/18/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	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	1.9	PJB
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	43	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HG

Lab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.04

Sample wt/vol: 32.6 (g/mL) G Lab File ID:

% Moisture: 28 Decanted: (Y/N) N Date Received: 05/18/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	1.9	JB
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HH

ab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.05

Sample wt/vol: 31.8 (g/mL) G Lab File ID: _____

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/18/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	1.4	PJB
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.57	PJB
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F02HJ

ab Name: SWL-TULSA Contract: 68W00077

Lab Code: AATS Case No.: 28064 SAS No.: SDG No.: F02H1

Matrix: (soil/water) SOIL Lab Sample ID: 43008.06

Sample wt/vol: 30.1 (g/mL) G Lab File ID:

% Moisture: 28 Decanted: (Y/N) N Date Received: 05/18/00

Extraction: (Type) SONC Date Extracted: 05/18/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/00

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	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	1.6	PJB
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	0.70	JB
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	46	U