



ISLIP RESOURCE RECOVERY AGENCY

REMEDIAL INVESTIGATION / FEASIBILITY STUDY

REMEDIAL INVESTIGATION REPORT

**SONIA ROAD LANDFILL
WEST BRENTWOOD, NEW YORK**

SITE REGISTRY NO. 152013

APPENDIX - S DATA VALIDATION REPORT FORMS



Dvirka and Bartilucci
Consulting Engineers

APRIL 1998

**REMEDIAL INVESTIGATION REPORT
APPENDIX S
DATA VALIDATION REPORT FORMS**

**SONIA ROAD LANDFILL
WEST BRENTWOOD, NEW YORK**

(SITE REGISTRY No. 152013)

**PREPARED FOR

ISLIP RESOURCE RECOVERY AGENCY**

**BY

DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS
WOODBURY, NEW YORK**

APRIL 1998

APPENDIX S

DATA VALIDATION REPORT FORMS

SUMMARY OF THE ANALYTICAL DATA VALIDATION

For the Sonia Road Landfill

New York State Department of Environmental Conservation Data Validation Summary Form

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # in CLP	Non Compliance
A0437	2/27/97	95	SS-S-1(0-2")	S	Yes	Yes	See Text	Yes	Yes		
A0437	2/27/97	95	SS-S-2(0-2")	S	Yes	Yes	Yes	Yes	Yes		
A0437	2/27/97	95	SS-S-3(0-2")	S	Yes	Yes	Yes	Yes	Yes		
A0437	2/28/97	95	SS-S-4(0-2")	S	Yes	Yes	See Text	Yes	Yes		
A0437	2/28/97	95	SS-S-5(0-2")	S	Yes	No	See Text	Yes	Yes	E-80	No Surrogate Recovery
A0437	2/28/97	95	SS-S-5(0-2")RE	S	NA	No	NA	NA	NA	I-31	Holding Time
A0437	2/28/97	95	SS-S-6(0-2")	S	Yes	Yes	Yes	Yes	Yes		
A0437	2/28/97	95	SS-S-7(0-2")	S	Yes	Yes	Yes	Yes	Yes		

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Volatile Organic Analyses - Method 95-1
Samples Received: February 27th & 28th, 1997
Sample Delivery Group: A0437
Laboratory Reference Numbers:

SS-S-1(0-2")	970437A-01
SS-S-2(0-2")	970437A-02
SS-S-3(0-2")	970437A-03
SS-S-4(0-2")	970437A-04
SS-S-4(0-2")MS	970437A-04MS
SS-S-4(0-2")MSB	970437A-04MSB
SS-S-4(0-2")MSD	970437A-04MSD
SS-S-5(0-2")	970437A-05
SS-S-6(0-2")	970437A-06
SS-S-7(0-2")	970437A-07

Soil samples were received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
 - Calibrations
- * - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

No significant problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
October 1, 1997

Holding Times

The samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

Several minor problems were found with the one initial calibration of this sample delivery group:

The % RSDs of bromomethane (26%) and tetrachloroethene (20.8%) were just above the 20.5% quality assurance limit. The data for these compounds were flagged with the "J" qualifier and footnoted with #15 in the data validation summary table.

The RF's of toluene, ethylbenzene and 1,1,2,2-tetrachloroethane could not be verified for the 200 ug/l standard. Similar, but not identical RF's were calculated. This discrepancy does not affect the end use of the data.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample SS-S-4(0-2") (Lab. #: 970437A-04) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the acceptable quality control limits.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

An additional blank spike form (page 21) was included which reported the recoveries of 29 additional TCL compounds. Eight of these were outside of the reported laboratory quality assurance limits. These analyses were not required as part of the NYS DEC ASP program.

Method Blank

A low concentration of acetone (8J ug/kg) was detected in the one method blank. This was negated according to the standard EPA data validation guidelines whenever it was detected in an associated sample.

The data for the method blank is reported next to the data for each sample in the data validation summary table.

Trip Blank

A trip blank was not analyzed with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limits received in the analytical report (page 26) were determined the day after the samples were analyzed. The instrument detection limits are required to be analyzed prior to the analysis of the samples.

Sample Results

A siloxane compound was detected as a non-target compound of several of the samples of this delivery group. This was most likely an artifact due to column bleed. This was footnoted with #67 and negated whenever it was detected in a sample.

No problems were found with the reported results of the samples of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 95-1
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA		Qualifiers	Footnotes
			Validation Reported Conc.	Decision		
Sample SS-S-1(0-2") (Lab. #: 970437A-01)						
TCL Volatile Organics	(Undiluted)	% Moisture = 11				
Chloromethane	10 U	11 U	11 U			
Bromomethane	10 U	11 U	11 U		J	15
Vinyl Chloride	10 U	11 U	11 U			
Chloroethane	10 U	11 U	11 U			
Methylene Chloride	10 U	11 U	11 U			
Acetone	8 J	26 B	29 B		J	1
Carbon Disulfide	10 U	11 U	11 U			
1,1-Dichloroethene	10 U	11 U	11 U			
1,1-Dichloroethane	10 U	11 U	11 U			
1,2-Dichloroethene (total)	10 U	11 U	11 U			
Chloroform	10 U	11 U	11 U			
1,2-Dichloroethane	10 U	11 U	11 U			
2-Butanone	10 U	11 U	11 U			
1,1,1-Trichloroethane	10 U	11 U	11 U			
Carbon Tetrachloride	10 U	11 U	11 U			
Bromodichloromethane	10 U	11 U	11 U			
1,2-Dichloropropane	10 U	11 U	11 U			
cis-1,3-Dichloropropene	10 U	11 U	11 U			
Trichloroethene	10 U	11 U	11 U			
Dibromochloromethane	10 U	11 U	11 U			
1,1,2-Trichloroethane	10 U	11 U	11 U			
Benzene	10 U	11 U	11 U			
trans-1,3-Dichloropropene	10 U	11 U	11 U			
Bromoform	10 U	11 U	11 U			
4-Methyl-2-Pentanone	10 U	11 U	11 U			
2-Hexanone	10 U	11 U	11 U		J	15
Tetrachloroethene	10 U	11 U	11 U			
1,1,2,2-Tetrachloroethane	10 U	11 U	11 U			
Toluene	10 U	11 U	11 U			
Chlorobenzene	10 U	11 U	11 U			
Ethylbenzene	10 U	11 U	11 U			
Styrene	10 U	11 U	11 U			
Xylene (total)	10 U	2 J	2 J			
Non-Target Volatile Organics						
Unknown Siloxane (24.76)	ND	80 J	90 J		negate	67

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 96-1
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-2(0-2") (Lab. #: 970437A-02)					
	% Moisture = 21				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	13 U	13 U		
Bromomethane	10 U	13 U	13 U	J quality	15
Vinyl Chloride	10 U	13 U	13 U		
Chloroethane	10 U	13 U	13 U		
Methylene Chloride	10 U	13 U	13 U		
Acetone	8 J	18 B	23 B	J negate	1
Carbon Disulfide	10 U	13 U	13 U		
1,1-Dichloroethene	10 U	13 U	13 U		
1,1-Dichloroethane	10 U	13 U	13 U		
1,2-Dichloroethene (total)	10 U	13 U	13 U		
Chloroform	10 U	13 U	13 U		
1,2-Dichloroethane	10 U	13 U	13 U		
2-Butanone	10 U	13 U	13 U		
1,1,1-Trichloroethane	10 U	13 U	13 U		
Carbon Tetrachloride	10 U	13 U	13 U		
Bromodichloromethane	10 U	13 U	13 U		
1,2-Dichloropropane	10 U	13 U	13 U		
cis-1,3-Dichloropropene	10 U	13 U	13 U		
Trichloroethene	10 U	13 U	13 U		
Dibromochloromethane	10 U	13 U	13 U		
1,1,2-Trichloroethane	10 U	13 U	13 U		
Benzene	10 U	13 U	13 U		
trans-1,3-Dichloropropene	10 U	13 U	13 U		
Bromoform	10 U	13 U	13 U		
4-Methyl-2-Pentanone	10 U	13 U	13 U		
2-Hexanone	10 U	13 U	13 U		
Tetrachloroethene	10 U	0.9 J	1.2 J	J quality	15
1,1,2,2-Tetrachloroethane	10 U	13 U	13 U		
Toluene	10 U	13 U	13 U		
Chlorobenzene	10 U	13 U	13 U		
Ethylbenzene	10 U	13 U	13 U		
Styrene	10 U	13 U	13 U		
Xylene (total)	10 U	13 U	13 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 95-1
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-3(0-2") (Lab. #: 970437A-03)					
TCL Volatile Organics	(Undiluted)	% Moisture = 24			
Chloromethane	10 U	13 U	13 U		
Bromomethane	10 U	13 U	13 U	J	quality 15
Vinyl Chloride	10 U	13 U	13 U		
Chloroethane	10 U	13 U	13 U		
Methylene Chloride	10 U	13 U	13 U		
Acetone	8 J	19 B	26 B	J	negato 1
Carbon Disulfide	10 U	13 U	13 U		
1,1-Dichloroethene	10 U	13 U	13 U		
1,1-Dichloroethane	10 U	13 U	13 U		
1,2-Dichloroethene (total)	10 U	13 U	13 U		
Chloroform	10 U	13 U	13 U		
1,2-Dichloroethane	10 U	13 U	13 U		
2-Butanone	10 U	13 U	13 U		
1,1,1-Trichloroethane	10 U	13 U	13 U		
Carbon Tetrachloride	10 U	13 U	13 U		
Bromodichloromethane	10 U	13 U	13 U		
1,2-Dichloropropane	10 U	13 U	13 U		
cis-1,3-Dichloropropene	10 U	13 U	13 U		
Trichloroethene	10 U	13 U	13 U		
Dibromochloromethane	10 U	13 U	13 U		
1,1,2-Trichloroethane	10 U	13 U	13 U		
Benzene	10 U	13 U	13 U		
trans-1,3-Dichloropropene	10 U	13 U	13 U		
Bromoform	10 U	13 U	13 U		
4-Methyl-2-Pentanone	10 U	13 U	13 U		
2-Hexanone	10 U	13 U	13 U	J	quality 15
Tetrachloroethene	10 U	13 U	13 U		
1,1,2,2-Tetrachloroethane	10 U	13 U	13 U		
Toluene	10 U	13 U	13 U		
Chlorobenzene	10 U	13 U	13 U		
Ethylbenzene	10 U	13 U	13 U		
Styrene	10 U	13 U	13 U		
Xylene (total)	10 U	13 U	13 U		
Non-Target Volatile Organics	ND	25 J	40 J	negato	67
Unknown Siloxane (24.68)					

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 95-1
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-4(0-2") (Lab. #: 970437A-04)		% Moisture = 38			
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	16 U	16 U		
Bromomethane	10 U	18 U	16 U	J	15
Vinyl Chloride	10 U	18 U	16 U		
Chloroethane	10 U	16 U	16 U		
Methylene Chloride	10 U	16 U	16 U		
Acetone	8 J	18 U	18 U		
Carbon Disulfide	10 U	16 U	18 U		
1,1-Dichloroethene	10 U	16 U	16 U		
1,1-Dichloroethane	10 U	18 U	16 U		
1,2-Dichloroethene (total)	10 U	16 U	16 U		
Chloroform	10 U	16 U	18 U		
1,2-Dichloroethane	10 U	16 U	16 U		
2-Butanone	10 U	16 U	16 U		
1,1,1-Trichloroethane	10 U	16 U	18 U		
Carbon Tetrachloride	10 U	16 U	18 U		
Bromodichloromethane	10 U	16 U	18 U		
1,2-Dichloropropane	10 U	18 U	16 U		
dis-1,3-Dichloropropene	10 U	18 U	16 U		
Trichloroethene	10 U	16 U	16 U		
Dibromochloromethane	10 U	16 U	18 U		
1,1,2-Trichloroethane	10 U	16 U	16 U		
Benzene	10 U	16 U	16 U		
trans-1,3-Dichloropropene	10 U	18 U	16 U		
Bromoform	10 U	18 U	16 U		
4-Methyl-2-Pentanone	10 U	16 U	16 U		
2-Hexanone	10 U	18 U	16 U	J	15
Tetrachloroethane	10 U	16 U	16 U		
1,1,2,2-Tetrachloroethane	10 U	16 U	16 U		
Toluene	10 U	18 U	16 U		
Chlorobenzene	10 U	16 U	16 U		
Ethylbenzene	10 U	16 U	16 U		
Styrene	10 U	16 U	16 U		
Xylene (total)	10 U	16 U	16 U		
Non-Target Volatile Organics	ND				
Unknown Siloxane (24.84)		25 J	41 J	negate	67

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 95-1
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-5(0-2") (Lab. #: 970437A-05)					
TCL Volatile Organics	(Undiluted)	% Moisture = 18			
Chloromethane	10 U	12 U	12 U		
Bromomethane	10 U	12 U	12 U		
Vinyl Chloride	10 U	12 U	12 U		
Chloroethane	10 U	12 U	12 U		
Methylene Chloride	10 U	12 U	12 U		
Acetone	8 J	12 U	12 U		
Carbon Disulfide	10 U	12 U	12 U		
1,1-Dichloroethene	10 U	12 U	12 U		
1,1-Dichloroethane	10 U	12 U	12 U		
1,2-Dichloroethene (total)	10 U	12 U	12 U		
Chloroform	10 U	12 U	12 U		
1,2-Dichloroethane	10 U	12 U	12 U		
2-Butanone	10 U	12 U	12 U		
1,1,1-Trichloroethane	10 U	12 U	12 U		
Carbon Tetrachloride	10 U	12 U	12 U		
Bromodichloromethane	10 U	12 U	12 U		
1,2-Dichloropropane	10 U	12 U	12 U		
cis-1,3-Dichloropropene	10 U	12 U	12 U		
Trichloroethene	10 U	12 U	12 U		
Dibromochloromethane	10 U	12 U	12 U		
1,1,2-Trichloroethane	10 U	12 U	12 U		
Benzene	10 U	12 U	12 U		
trans-1,3-Dichloropropene	10 U	12 U	12 U		
Bromoform	10 U	12 U	12 U		
4-Methyl-2-Pentanone	10 U	12 U	12 U		
2-Hexanone	10 U	12 U	12 U		
Tetrachloroethene	10 U	12 U	12 U		
1,1,2,2-Tetrachloroethane	10 U	12 U	12 U		
Toluene	10 U	12 U	12 U		
Chlorobenzene	10 U	12 U	12 U		
Ethylbenzene	10 U	12 U	12 U		
Styrene	10 U	12 U	12 U		
Xylene (total)	10 U	12 U	12 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 96-1
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-6(0-2") (Lab. #: 970437A-06)					
TCL Volatile Organics	(Undiluted)	% Moisture = 30			
Chloromethane	10 U	14 U	14 U		
Bromomethane	10 U	14 U	14 U	J	15
Vinyl Chloride	10 U	14 U	14 U		
Chloroethane	10 U	14 U	14 U		
Methylene Chloride	10 U	14 U	14 U		
Acetone	8 J	22 B	31 B	J	1
Carbon Disulfide	10 U	14 U	14 U		
1,1-Dichloroethane	10 U	14 U	14 U		
1,1-Dichloroethane	10 U	14 U	14 U		
1,2-Dichloroethane (total)	10 U	14 U	14 U		
Chloroform	10 U	14 U	14 U		
1,2-Dichloroethane	10 U	14 U	14 U		
2-Butanone	10 U	14 U	14 U		
1,1,1-Trichloroethane	10 U	14 U	14 U		
Carbon Tetrachloride	10 U	14 U	14 U		
Bromodichloromethane	10 U	14 U	14 U		
1,2-Dichloropropane	10 U	14 U	14 U		
cis-1,3-Dichloropropene	10 U	14 U	14 U		
Trichloroethene	10 U	14 U	14 U		
Dibromochloromethane	10 U	14 U	14 U		
1,1,2-Trichloroethane	10 U	14 U	14 U		
Benzene	10 U	14 U	14 U		
trans-1,3-Dichloropropene	10 U	14 U	14 U		
Bromoform	10 U	14 U	14 U		
4-Methyl-2-Pentanone	10 U	14 U	14 U		
2-Hexanone	10 U	14 U	14 U		
Tetrachloroethene	10 U	0.8 J	1.1 J	J	15
1,1,2,2-Tetrachloroethane	10 U	14 U	14 U		
Toluene	10 U	14 U	14 U		
Chlorobenzene	10 U	14 U	14 U		
Ethylbenzene	10 U	14 U	14 U		
Styrene	10 U	14 U	14 U		
Xylene (total)	10 U	14 U	14 U		

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 95-1
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-7(0-2") (Lab. #: 970437A-07)					
TCL Volatile Organics	(Undiluted)	% Moisture = 17			
Chloromethane	10 U	12 U	12 U		
Bromomethane	10 U	12 U	12 U	J	quality 15
Vinyl Chloride	10 U	12 U	12 U		
Chloroethane	10 U	12 U	12 U		
Methylene Chloride	10 U	12 U	12 U		
Acetone	8 J	18 B	16 B	J	negate 1
Carbon Disulfide	10 U	12 U	12 U		
1,1-Dichloroethene	10 U	12 U	12 U		
1,1-Dichloroethane	10 U	12 U	12 U		
1,2-Dichloroethene (total)	10 U	12 U	12 U		
Chloroform	10 U	12 U	12 U		
1,2-Dichloroethane	10 U	12 U	12 U		
2-Butanone	10 U	12 U	12 U		
1,1,1-Trichloroethane	10 U	12 U	12 U		
Carbon Tetrachloride	10 U	12 U	12 U		
Bromodichloromethane	10 U	12 U	12 U		
1,2-Dichloropropane	10 U	12 U	12 U		
cis-1,3-Dichloropropene	10 U	12 U	12 U		
Trichloroethene	10 U	12 U	12 U		
Dibromochloromethane	10 U	12 U	12 U		
1,1,2-Trichloroethane	10 U	12 U	12 U		
Benzene	10 U	12 U	12 U		
trans-1,3-Dichloropropene	10 U	12 U	12 U		
Bromoform	10 U	12 U	12 U		
4-Methyl-2-Pentanone	10 U	12 U	12 U		
2-Hexanone	10 U	12 U	12 U		
Tetrachloroethene	10 U	12 U	12 U	J	quality 15
1,1,2,2-Tetrachloroethane	10 U	12 U	12 U		
Toluene	10 U	11 J	13 J		
Chlorobenzene	10 U	12 U	12 U		
Ethylbenzene	10 U	3 J	3 J		
Styrene	10 U	12 U	12 U		
Xylene (total)	10 U	14	16		
Non-Target Volatile Organics					
None Detected					

% Moisture = 17

(Undiluted)

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Volatile Organic Analyses - Method 95-1
Samples Received: February 27th & 28th, 1997
Sample Delivery Group: A0437
Laboratory Reference Numbers:

SS-S-1(0-2")	970437A-01
SS-S-2(0-2")	970437A-02
SS-S-3(0-2")	970437A-03
SS-S-4(0-2")	970437A-04
SS-S-4(0-2")D	970437A-04D
SS-S-4(0-2")MS	970437A-04MS
SS-S-4(0-2")MSB	970437A-04MSB
SS-S-4(0-2")MSD	970437A-04MSD
SS-S-5(0-2")	970437A-05
SS-S-6(0-2")	970437A-06
SS-S-7(0-2")	970437A-07

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: HP5972D

Level: Low

Tune File ID: DB650

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: D7693

Date: 02/01/97

Page: 85

Associated Samples: SS-S-2 (0-2"), SS-S-3(0-2"), SS-S-4(0-2"), SS-S-5(0-2"), SS-S-6(0-2"), SS-S-7(0-2"), SS-S-4(0-2")MS, SS-S-4(0-2")MSD, SS-S-1(0-2"), SS-S-4(0-2")MSB

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	26%	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	20.8%	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300

Surrogates:

Toluene-d8	<30.0	>0.01
Bromofluorobenzene *	<20.5	>0.20
1,2-Dichloroethane-d4	<30.0	>0.01

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes

All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	Chloroform	Ethylbenzene
PPB		
10	19828/36064 * 5.000 = 2.749	14946/155746 * 5.000 = 0.480
20	35165/34540 * 2.500 = 2.545	25707/160865 * 2.500 = 0.400
50	83506/33052 * 1.000 = 2.527	60270/144417 * 1.000 = 0.417
100	140162/28584 * 0.500 = 2.452	101137/124231 * 0.500 = 0.407
200	284909/28480 * 0.250 = 2.501	216583/129466 * 0.250 = 0.418 [0.406]

AV. RRF = 2.554

%RSD = 4.5%

AV. RRF = 0.406

%RSD = 13.6%

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: HP5972D	Level: Low	
Tune File ID: DB699	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: D8328	Date: 03/04/97	Page: 106
Initial Calibration File ID: D7693	Date: 02/01/97	Page: 85
Associated Samples: SS-S-2 (0-2"), SS-S-3(0-2"), SS-S-4(0-2"), SS-S-5(0-2"), SS-S-6(0-2"), SS-S-7(0-2"), SS-S-4-(0-2")MS, SS-S-4(0-2")MSD, SS-S-1(0-2"), SS-S-4(0-2")MSB		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes
 All Compounds Average RRF > 0.01: yes
 All Compounds %D < QC Limit: yes

Footnote:
 Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax * Cis/Cs)

COMPOUND:	1,1-Dichloroethene	1,1,2,2-Tetrachloroethane
PPB		
50	226673/216715 * 1.000 = 1.046	558408/963651 * 1.000 = 0.579 [0.475]
%D: (1.104 - 1.046) / 1.104 * 100 = 5.253623	%D: (0.625 - 0.475) / 0.625 * 100 = 24%	

METHOD BLANK: VBLKDD (Page 113)

Compound
 Acetone

ppb
 8J

<CRDL
 10

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Semivolatile Organic Analyses - Method 95-2

Samples Received: February 27th & 28th, 1997

Sample Delivery Group: A0437

Laboratory Reference Numbers:

SS-S-1(0-2")	970437A-01
SS-S-2(0-2")	970437A-02
SS-S-3(0-2")	970437A-03
SS-S-4(0-2")	970437A-04
SS-S-4(0-2")MS	970437A-04MS
SS-S-4(0-2")MSB	970437A-04MSB
SS-S-4(0-2")MSD	970437A-04MSD
SS-S-5(0-2")	970437A-05
SS-S-5(0-2")RE	970437A-05RE
SS-S-6(0-2")	970437A-06
SS-S-7(0-2")	970437A-07

Soil samples were received for analyses of the semivolatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- Calibrations
- Laboratory Blanks
- Field Blank
- Surrogate Compound Recoveries
- * - Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
- Blank Spike
- * - Compound Identification
- Compound Quantitation
- Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

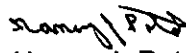
The laboratory's case narrative notes the "Sample SS-S-5(0-2') did not recover any surrogate compounds. The extract appears to have been misprocessed during GPC cleanup. This sample is being re-extracted and the data from the reextraction will be reported as an addendum to this data package." All of the surrogates were within the required quality assurance limits when the sample was extracted one day after the required holding time. The data from the reanalysis should be used for all of the final reporting. This has been flagged with the "J" qualifier and footnoted with

#81 in the data validation summary table to note the nonconformance with the required holding time.

The concentration of bis(2-ethylhexyl)phthalate in sample SS-S-1(0-2"), 78,000 ug/kg, was just greater than the 160 ug/l upper calibration standard (162 ug/l), prior to correction for the 25X dilution and percent solids content of the sample. The laboratory flagged the sample with the "E" qualifier, but did not reanalyze the sample at a dilution.

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

No other problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
October 18, 1997

Holding Times

The laboratory's case narrative notes the "Sample SS-S-5(0-2)" did not recover any surrogate compounds. The extract appears to have been misprocessed during GPC cleanup. This sample is being re-extracted and the data from the reextraction will be reported as an addendum to this data package."

This sample was reextracted one day beyond the required 5 day holding time. The data for this sample was flagged with the "J" qualifier and footnoted with #81 in the data validation summary table.

The remaining samples were extracted and analyzed within the holding times required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

Surrogate Compound Recoveries

The laboratory's case narrative notes the "Sample SS-S-5(0-2)" did not recover and surrogate compounds. The extract appears to have been misprocessed during GPC cleanup. All of the surrogates were within the required quality assurance limits when the sample was extracted one day after the required holding time.

All other system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

Several minor problems were found with the one initial calibration of this sample delivery group:

The % RSD of benzo(g,h,i)perylene (24%) was just above the 20.5% quality assurance limit. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table.

The RRFs of the 120ug/l and 160 ug/l standards for 4-chlorophenyl-phenylether (0.368 & 0.345) and the 160 ug/l standard for fluorene (0.937 & 0.889) were both less than the quality assurance limits of 0.400 and 0.900. Both of the mean RRFs for these compounds were above the quality assurance limits (0.422 & 1.027). The data for these two compounds were flagged with the "J" qualifier and footnoted with #16 in the data validation summary table.

The percent difference of benzo(k)fluoranthene (28%) was just above the 25% quality assurance limit in the first of the two continuing calibrations associated with the initial analyses of the samples. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table.

No problems were found with the second continuing calibration or the continuing calibration associated with the reanalysis of sample SS-S-5(0-2").

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample SS-S-4(0-2") (Lab. #: 970437A-04) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the acceptable quality control limits with the following exceptions:

Compound	MS %Rec	MSD %Rec	QC Limits	RPD	Limits
Phenol			26-90		35
2-Chlorophenol			25-102		50
1,4-Dichlorobenzene			28-104		27
N-Nitroso-di-n-prop.			41-126		38
1,2,4-Trichlorobenzene			38-107		23
4-Chloro-3-methylphenol		105%	26-103		33
Acenaphthene			31-137		19
4-Nitrophenol		125%	11-114		50
2,4-Dinitrotoluene		92%	28-89		47
Pentachlorophenol			17-109		47
Pyrene			35-142		36

None of these three compounds were detected in any of the samples of this delivery group and the high recoveries do not affect the end use of the data.

Blank Spike

All blank spike recoveries were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	QC Limits
Phenol		12 - 110
2-Chlorophenol		27 - 123
1,4-Dichlorobenzene		36 - 97
N-Nitroso-di-n-prop.		41 - 116
1,2,4-Trichlorobenzene		39 - 98
4-Chloro-3-methylphenol		23 - 97
Acenaphthene		46 - 118
4-Nitrophenol	104%	10 - 80
2,4-Dinitrotoluene		24 - 96
Pentachlorophenol	104%	9 - 103
Pyrene		26 - 127

Neither of these two compounds were detected in any of the samples of this delivery group and the high recoveries do not affect the end use of the data.

Method Blank

Low concentrations of diethylphthalate, di-n-butylphthalate, bis(2-ethylhexyl)phthalate and several non-target compounds were detected in each of the three method blanks associated with this sample delivery group:

These were negated or qualified according to the standard EPA data validation guidelines whenever they were detected in an associated sample.

The data for the method blank is reported next to the data for each sample in the data validation summary table.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

Sample Results

Sample SS-S-1(0-2") (Lab. #: 970437A-01)

The concentration of bis(2-ethylhexyl)phthalate in this sample (78,000 ug/kg) was just greater than the 160 ug/l upper calibration standard (162 ug/l) prior to correction for the 25X dilution and percent solids content of the sample. The laboratory flagged the sample with the "E" qualifier, but did not reanalyze the sample at a dilution.

Sample SS-S-5(0-2") (Lab. #: 970437A-05)

The laboratory's case narrative notes the "Sample SS-S-5(0-2") did not recover any surrogate compounds. The extract appears to have been misprocessed during GPC cleanup. This sample is being re-extracted and the data from the reextraction will be reported as an addendum to this data package." All of the surrogates were within the required quality assurance limits when the sample was extracted one day after the required holding time. The data from the reanalysis should be used for all of the final reporting. This has been flagged with the "J" qualifier and footnoted with #81 in the data validation summary table to note the nonconformance with the required holding time.

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-1(0-2") (Lab. #: 970437A-01)					
% Moisture = 13					
TCL Semivolatile Organics	(Diluted 25X)				
Phenol	330 U	9,500 U	9,750 U		
bis(2-Chloroethyl)Ether	330 U	9,500 U	9,750 U		
2-Chlorophenol	330 U	9,500 U	9,750 U		
1,3-Dichlorobenzene	330 U	9,500 U	9,750 U		
1,4-Dichlorobenzene	330 U	9,500 U	9,750 U		
1,2-Dichlorobenzene	330 U	9,500 U	9,750 U		
2-Methylphenol	330 U	9,500 U	9,750 U		
bis(2-Chloroisopropyl)ether	330 U	9,500 U	9,750 U		
4-Methylphenol	330 U	9,500 U	9,750 U		
N-Nitroso-di-n-propylamine	330 U	9,500 U	9,750 U		
Hexachloroethane	330 U	9,500 U	9,750 U		
Nitrobenzene	330 U	9,500 U	9,750 U		
Isophorone	330 U	9,500 U	9,750 U		
2-Nitrophenol	330 U	9,500 U	9,750 U		
2,4-Dimethylphenol	330 U	9,500 U	9,750 U		
bis(2-Chloroethoxy)methane	330 U	9,500 U	9,750 U		
2,4-Dichlorophenol	330 U	9,500 U	9,750 U		
1,2,4-Trichlorobenzene	330 U	9,500 U	9,750 U		
Naphthalene	330 U	9,500 U	9,750 U		
4-Chloroaniline	330 U	9,500 U	9,750 U		
Hexachlorobutadiene	330 U	9,500 U	9,750 U		
4-Chloro-3-methylphenol	330 U	9,500 U	9,750 U		
2-Methylnaphthalene	330 U	9,500 U	9,750 U		
Hexachlorocyclopentadiene	330 U	9,500 U	9,750 U		
2,4,6-Trichlorophenol	330 U	9,500 U	9,750 U		
2,4,5-Trichlorophenol	800 U	23,000 U	24,250 U		
2-Chloronaphthalene	330 U	9,500 U	9,750 U		
2-Nitroaniline	800 U	23,000 U	24,250 U		
Dimethylphthalate	330 U	9,500 U	9,750 U		
Acenaphthylene	330 U	9,500 U	9,750 U		
2,6-Dinitrotoluene	330 U	9,500 U	9,750 U		
3-Nitroaniline	800 U	23,000 U	24,250 U		
Acenaphthene	330 U	9,500 U	9,750 U		
2,4-Dinitrophenol	800 U	23,000 U	24,250 U		
4-Nitrophenol	330 U	9,500 U	9,750 U		
Dibenzofuran	330 U	9,500 U	9,750 U		
2,4-Dinitrotoluene	330 U	9,500 U	9,750 U		
Diethylphthalate	9 J	9,500 U	9,750 U		
4-Chlorophenyl-phenylether	330 U	9,500 U	9,750 U	J	qualify 16
Fluorene	330 U	9,500 U	9,750 U	J	qualify 16
4-Nitroaniline	800 U	23,000 U	24,250 U		
4,6-Dinitro-2-methylphenol	800 U	23,000 U	24,250 U		
N-Nitrosodiphenylamine (1)	330 U	9,500 U	9,750 U		
4-Bromophenyl-phenylether	330 U	9,500 U	9,750 U		
Hexachlorobenzene	330 U	9,500 U	9,750 U		
Pentachlorophenol	800 U	23,000 U	24,250 U		
Phenanthrene	330 U	550 J	553 J		
Anthracene	330 U	130 J	132 J		
Carbazole	330 U	9,500 U	9,750 U		
Di-n-Butylphthalate	18 J	9,500 U	9,750 U		
Fluoranthene	330 U	720 J	722 J		
Pyrene	330 U	830 J	832 J		
Butylbenzylphthalate	330 U	9,500 U	9,750 U		
3,3'-Dichlorobenzidine	330 U	9,500 U	9,750 U		
Benzo(a)anthracene	330 U	9,500 U	9,750 U		
Chrysene	330 U	9,500 U	9,750 U		
Bis(2-Ethylhexyl)phthalate	79 J	78,000 EB	77,738 EB	J	qualify 3, See Text
Di-n-octylphthalate	330 U	290 J	288 J		
Benzo(b)fluoranthene	330 U	9,500 U	9,750 U		
Benzo(k)fluoranthene	330 U	9,500 U	9,750 U		
Benzo(a)pyrene	330 U	9,500 U	9,750 U		
Indeno(1,2,3-cd)pyrene	330 U	9,500 U	9,750 U		
Dibenz(a,h)anthracene	330 U	9,500 U	9,750 U		
Benzo(g,h,i)perylene	330 U	9,500 U	9,750 U	J	qualify 15
Non-Target Semivolatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-2(0-2") (Lab. #: 970437A-02)					
% Moisture = 19					
TCL Semivolatile Organics	(Undiluted)				
Phenol	330 U	410 U	420 U		
bis(2-Chloroethyl)Ether	330 U	410 U	420 U		
2-Chlorophenol	330 U	410 U	420 U		
1,3-Dichlorobenzene	330 U	410 U	420 U		
1,4-Dichlorobenzene	330 U	410 U	420 U		
1,2-Dichlorobenzene	330 U	410 U	420 U		
2-Methylphenol	330 U	410 U	420 U		
bis(2-Chloroisopropyl)ether	330 U	410 U	420 U		
4-Methylphenol	330 U	410 U	420 U		
N-Nitroso-di-n-propylamine	330 U	410 U	420 U		
Hexachloroethane	330 U	410 U	420 U		
Nitrobenzene	330 U	410 U	420 U		
Isophorone	330 U	410 U	420 U		
2-Nitrophenol	330 U	410 U	420 U		
2,4-Dimethylphenol	330 U	410 U	420 U		
bis(2-Chloroethoxy)methane	330 U	410 U	420 U		
2,4-Dichlorophenol	330 U	410 U	420 U		
1,2,4-Trichlorobenzene	330 U	410 U	420 U		
Naphthalene	330 U	410 U	420 U		
4-Chloroaniline	330 U	410 U	420 U		
Hexachlorobutadiene	330 U	410 U	420 U		
4-Chloro-3-methylphenol	330 U	410 U	420 U		
2-Methylnaphthalene	330 U	9 J	9 J		
Hexachlorocyclopentadiene	330 U	410 U	420 U		
2,4,6-Trichlorophenol	330 U	410 U	420 U		
2,4,5-Trichlorophenol	800 U	990 U	1,040 U		
2-Chloronaphthalene	330 U	410 U	420 U		
2-Nitroaniline	800 U	990 U	1,040 U		
Dimethylphthalate	330 U	410 U	420 U		
Acenaphthylene	330 U	410 U	420 U		
2,6-Dinitrotoluene	330 U	410 U	420 U		
3-Nitroaniline	800 U	990 U	1,040 U		
Acenaphthene	330 U	410 U	420 U		
2,4-Dinitrophenol	800 U	990 U	1,040 U		
4-Nitrophenol	330 U	410 U	420 U		
Dibenzofuran	330 U	410 U	420 U		
2,4-Dinitrotoluene	330 U	410 U	420 U		
Diethylphthalate	9 J	14 JB	14 JB	negate	1
4-Chlorophenyl-phenylether	330 U	410 U	420 U	J	16
Fluorene	330 U	410 U	420 U	J	16
4-Nitroaniline	800 U	990 U	1,040 U		
4,6-Dinitro-2-methylphenol	800 U	990 U	1,040 U		
N-Nitrosodiphenylamine (1)	330 U	410 U	420 U		
4-Bromophenyl-phenylether	330 U	410 U	420 U		
Hexachlorobenzene	330 U	410 U	420 U		
Pentachlorophenol	800 U	990 U	1,040 U		
Phenanthrene	330 U	66 J	66 J		
Anthracene	330 U	9 J	9 J		
Carbazole	330 U	410 U	420 U		
Di-n-Butylphthalate	18 J	19 JB	19 JB	negate	1
Fluoranthene	330 U	120 J	122 J		
Pyrene	330 U	110 J	113 J		
Butylbenzylphthalate	330 U	29 J	29 J		
3,3'-Dichlorobenzidine	330 U	410 U	420 U		
Benzo(a)anthracene	330 U	50 J	50 J		
Chrysene	330 U	83 J	83 J		
Bis(2-Ethylhexyl)phthalate	79 J	140 JB	143 JB	negate	1
Di-n-octylphthalate	330 U	410 U	420 U		
Benzo(b)fluoranthene	330 U	72 J	72 J		
Benzo(k)fluoranthene	330 U	52 J	52 J	qualify	15
Benzo(a)pyrene	330 U	62 J	62 J		
Indeno(1,2,3-cd)pyrene	330 U	69 J	69 J		
Dibenz(a,h)anthracene	330 U	410 U	420 U		
Benzo(g,h,i)perylene	330 U	68 J	68 J	qualify	15

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-2(0-2") (Lab. #: 970437A-02)					
			% Moisture = 19		
Non-Target Semivolatile Organics					
Unknown (20.09)	ND	3,200 J	3,258 J		
Gamma-Sitosterol (23.45)	ND	1,600 JN	1,649 JN		
Unknown Alkane (21.15)	ND	1,600 J	1,632 J		
Unknown (25.92)	ND	1,000 J	1,030 J		
Unknown (24.74)	ND	990 J	989 J		
Unknown (22.76)	ND	970 J	974 J		
Unknown (22.98)	ND	970 J	967 J		
Unknown (23.54)	ND	960 J	966 J		
Unknown (19.70)	ND	850 J	849 J		
Unknown (21.33)	ND	850 J	847 J		
Unknown Alkane (22.50)	ND	840 J	839 J		
Unknown (23.05)	ND	660 J	665 J		
Unknown Alkane (20.00)	68 J	610 JB	614 JB	quality	3
Unknown (24.05)	ND	600 J	604 J		
Unknown (24.59)	ND	590 J	591 J		
Unknown (23.84)	ND	570 J	570 J		
Unknown (24.45)	ND	510 J	510 J		
Unknown (21.50)	ND	450 J	453 J		
Unknown Alkane (24.22)	ND	440 J	437 J		
Cholesterol (21.90)	ND	440 JN	436 JN		
Unknown (24.11)	ND	430 J	434 J		
Unknown (22.85)	ND	390 J	393 J		
Unknown (23.90)	ND	370 J	373 J		
Unknown Alkane (18.84)	ND	340 J	346 J		
Unknown (21.69)	ND	340 J	339 J		
Unknown (18.97)	ND	330 J	329 J		
Unknown (18.95)	ND	320 J	323 J		
Unknown (26.28)	ND	320 J	318 J		
Unknown (24.88)	ND	300 J	304 J		
Unknown (22.26)	ND	290 J	289 J		

Data Validation Summary Table
For the Sonia Road Landfill

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Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-3(0-2") (Lab. #: 970437A-03)					
TCL Semivolatile Organics					
(Undiluted)					
% Moisture = 25					
Phenol	330 U	440 U	450 U		
bis(2-Chloroethyl)Ether	330 U	440 U	450 U		
2-Chlorophenol	330 U	440 U	450 U		
1,3-Dichlorobenzene	330 U	440 U	450 U		
1,4-Dichlorobenzene	330 U	440 U	450 U		
1,2-Dichlorobenzene	330 U	440 U	450 U		
2-Methylphenol	330 U	440 U	450 U		
bis(2-Chloroisopropyl)ether	330 U	440 U	450 U		
4-Methylphenol	330 U	440 U	450 U		
N-Nitroso-di-n-propylamine	330 U	440 U	450 U		
Hexachloroethane	330 U	440 U	450 U		
Nitrobenzene	330 U	440 U	450 U		
Isophorone	330 U	440 U	450 U		
2-Nitrophenol	330 U	440 U	450 U		
2,4-Dimethylphenol	330 U	440 U	450 U		
bis(2-Chloroethoxy)methane	330 U	440 U	450 U		
2,4-Dichlorophenol	330 U	440 U	450 U		
1,2,4-Trichlorobenzene	330 U	440 U	450 U		
Naphthalene	330 U	440 U	450 U		
4-Chloroaniline	330 U	440 U	450 U		
Hexachlorobutadiene	330 U	440 U	450 U		
4-Chloro-3-methylphenol	330 U	440 U	450 U		
2-Methylnaphthalene	330 U	440 U	450 U		
Hexachlorocyclopentadiene	330 U	440 U	450 U		
2,4,6-Trichlorophenol	330 U	440 U	450 U		
2,4,5-Trichlorophenol	800 U	1,100 U	1,120 U		
2-Chloronaphthalene	330 U	440 U	450 U		
2-Nitroaniline	800 U	1,100 U	1,120 U		
Dimethylphthalate	330 U	440 U	450 U		
Acenaphthylene	330 U	440 U	450 U		
2,6-Dinitrotoluene	330 U	440 U	450 U		
3-Nitroaniline	800 U	1,100 U	1,120 U		
Acenaphthene	330 U	440 U	450 U		
2,4-Dinitrophenol	800 U	1,100 U	1,120 U		
4-Nitrophenol	330 U	440 U	450 U		
Dibenzofuran	330 U	440 U	450 U		
2,4-Dinitrotoluene	330 U	440 U	450 U		
Diethylphthalate	9 J	22 JB	22 JB		
4-Chlorophenyl-phenylether	330 U	440 U	450 U		
Fluorene	330 U	440 U	450 U		
4-Nitroaniline	800 U	1,100 U	1,120 U		
4,6-Dinitro-2-methylphenol	800 U	1,100 U	1,120 U		
N-Nitrosodiphenylamine (1)	330 U	440 U	450 U		
4-Bromophenyl-phenylether	330 U	440 U	450 U		
Hexachlorobenzene	330 U	440 U	450 U		
Pentachlorophenol	800 U	1,100 U	1,120 U		
Phenanthrene	330 U	120 J	121 J		
Anthracene	330 U	19 J	19 J		
Carbazole	330 U	15 J	15 J		
Di-n-Butylphthalate	18 J	28 JB	28 JB		
Fluoranthene	330 U	310 J	310 J		
Pyrene	330 U	270 J	272 J		
Butylbenzylphthalate	330 U	35 J	35 J		
3,3'-Dichlorobenzidine	330 U	440 U	450 U		
Benzo(a)anthracene	330 U	160 J	163 J		
Chrysene	330 U	230 J	226 J		
Bis(2-Ethylhexyl)phthalate	79 J	140 JB	136 JB		
Di-n-octylphthalate	330 U	440 U	450 U		
Benzo(b)fluoranthene	330 U	180 J	176 J		
Benzo(k)fluoranthene	330 U	130 J	134 J		
Benzo(a)pyrene	330 U	140 J	145 J		
Indeno(1,2,3-cd)pyrene	330 U	140 J	139 J		
Dibenz(a,h)anthracene	330 U	45 J	45 J		
Benzo(g,h,i)perylene	330 U	62 J	62 J		
				negate	1
				quality	16
				quality	16
				negate	1
				quality	15
				quality	15

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-3(0-2") (Lab. #: 970437A-03)					
			% Moisture = 25		
Non-Target Semivolatile Organics					
Unknown Alkane (21.16)	ND	1,300 J	1,338 J		
Gamma-Sitosterol (23.45)	ND	1,300 JN	1,275 JN		
Unknown (24.42)	ND	1,100 J	1,114 J		
Unknown (24.76)	ND	1,100 J	1,097 J		
Unknown (18.93)	ND	920 J	925 J		
Unknown (23.00)	ND	880 J	876 J		
Unknown Alkane (20.01)	68 J	780 JB	778 JB	qualify	3
Unknown (23.85)	ND	770 J	773 J		
Unknown (24.13)	ND	770 J	772 J		
Unknown (21.30)	ND	760 J	765 J		
Unknown (22.86)	ND	630 J	635 J		
Unknown (23.50)	ND	570 J	571 J		
Unknown (21.34)	ND	550 J	551 J		
Unknown (23.55)	ND	550 J	550 J		
Unknown (25.94)	ND	550 J	548 J		
Unknown (24.61)	ND	530 J	534 J		
Unknown (22.77)	ND	530 J	529 J		
Unknown (23.70)	ND	500 J	504 J		
Unknown (25.46)	ND	490 J	488 J		
Unknown Alkane (22.52)	ND	450 J	448 J		
Unknown (20.86)	ND	430 J	434 J		
Unknown (21.52)	ND	410 J	412 J		
Unknown (23.99)	ND	370 J	367 J		
Unknown Alkane (18.65)	ND	350 J	346 J		
Unknown (20.12)	ND	340 J	340 J		
Unknown (23.07)	ND	320 J	326 J		
Hexadecanoic Acid (13.72)	ND	320 JN	318 JN		
Unknown (25.20)	ND	320 J	319 J		
Limonene (5.94)	ND	300 JN	304 JN		
Unknown (20.15)	ND	300 J	302 J		

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2

Samples Received February 27th & 28th, 1997

Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc.	Qualifiers	Footnotes
Sample SS-S-4(0-2") (Lab. #: 970437A-04)					
TCL Semivolatile Organics					
(Undiluted)					
% Moisture = 38					
Phenol	330 U	530 U	540 U		
bis(2-Chloroethyl)Ether	330 U	530 U	540 U		
2-Chlorophenol	330 U	530 U	540 U		
1,3-Dichlorobenzene	330 U	530 U	540 U		
1,4-Dichlorobenzene	330 U	530 U	540 U		
1,2-Dichlorobenzene	330 U	530 U	540 U		
2-Methylphenol	330 U	530 U	540 U		
bis(2-Chloroisopropyl)ether	330 U	530 U	540 U		
4-Methylphenol	330 U	530 U	540 U		
N-Nitroso-di-n-propylamine	330 U	530 U	540 U		
Hexachloroethane	330 U	530 U	540 U		
Nitrobenzene	330 U	530 U	540 U		
Isophorone	330 U	530 U	540 U		
2-Nitrophenol	330 U	530 U	540 U		
2,4-Dimethylphenol	330 U	530 U	540 U		
bis(2-Chloroethoxy)methane	330 U	530 U	540 U		
2,4-Dichlorophenol	330 U	530 U	540 U		
1,2,4-Trichlorobenzene	330 U	530 U	540 U		
Naphthalene	330 U	530 U	540 U		
4-Chloroaniline	330 U	530 U	540 U		
Hexachlorobutadiene	330 U	530 U	540 U		
4-Chloro-3-methylphenol	330 U	530 U	540 U		
2-Methylnaphthalene	330 U	530 U	540 U		
Hexachlorocyclopentadiene	330 U	530 U	540 U		
2,4,6-Trichlorophenol	330 U	530 U	540 U		
2,4,5-Trichlorophenol	800 U	1,300 U	1,360 U		
2-Chloronaphthalene	330 U	530 U	540 U		
2-Nitroaniline	800 U	1,300 U	1,360 U		
Dimethylphthalate	330 U	530 U	540 U		
Acenaphthylene	330 U	530 U	540 U		
2,6-Dinitrotoluene	330 U	530 U	540 U		
3-Nitroaniline	800 U	1,300 U	1,360 U		
Acenaphthene	330 U	530 U	540 U		
2,4-Dinitrophenol	800 U	1,300 U	1,360 U		
4-Nitrophenol	330 U	530 U	540 U		
Dibenzofuran	330 U	530 U	540 U		
2,4-Dinitrotoluene	330 U	530 U	540 U		
Diethylphthalate	11 J	25 JB	25 JB		
4-Chlorophenyl-phenylether	330 U	530 U	540 U		
Fluorene	330 U	530 U	540 U		
4-Nitroaniline	800 U	1,300 U	1,360 U		
4,6-Dinitro-2-methylphenol	800 U	1,300 U	1,360 U		
N-Nitrosodiphenylamine (1)	330 U	530 U	540 U		
4-Bromophenyl-phenylether	330 U	530 U	540 U		
Hexachlorobenzene	330 U	530 U	540 U		
Pentachlorophenol	800 U	1,300 U	1,360 U		
Phenanthrene	330 U	100 J	102 J		
Anthracene	330 U	15 J	15 J		
Carbazole	330 U	530 U	540 U		
Di-n-Butylphthalate	9 J	39 JB	39 JB		
Fluoranthene	330 U	230 J	230 J		
Pyrene	330 U	190 J	191 J		
Butylbenzylphthalate	330 U	38 J	38 J		
3,3'-Dichlorobenzidine	330 U	530 U	540 U		
Benzo(a)anthracene	330 U	88 J	88 J		
Chrysene	330 U	150 J	148 J		
Bis(2-Ethylhexyl)phthalate	25 J	1,100 B	1,077 B		
Di-n-octylphthalate	330 U	530 U	540 U		
Benzo(b)fluoranthene	330 U	120 J	124 J		
Benzo(k)fluoranthene	330 U	120 J	118 J		
Benzo(a)pyrene	330 U	120 J	125 J		
Indeno(1,2,3-cd)pyrene	330 U	140 J	136 J		
Dibenz(a,h)anthracene	330 U	41 J	41 J		
Benzo(g,h,i)perylene	330 U	250 J	247 J		

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-4(0-2") (Lab. #: 970437A-04)					
% Moisture = 38					
Non-Target Semivolatile Organics					
Gamma-Sitosterol (23.44)	ND	3,700 JN	3,750 JN		
Unknown (24.76)	ND	2,800 J	2,823 J		
Unknown (23.09)	ND	2,400 J	2,421 J		
Unknown (24.62)	ND	2,300 J	2,349 J		
Unknown Alkane (22.52)	ND	2,200 J	2,247 J		
Unknown Alkane (21.16)	ND	2,100 J	2,091 J		
Stigmasterol (22.94)	ND	1,500 JN	1,481 JN		
Unknown Alkane (24.23)	ND	1,400 J	1,354 J		
Unknown (24.13)	ND	1,300 J	1,282 J		
Unknown (23.85)	ND	1,200 J	1,198 J		
Unknown (23.56)	ND	1,100 J	1,141 J		
Hexadecanoic Acid (13.74)	ND	1,000 JN	1,056 JN		
Unknown (20.09)	ND	1,000 J	1,012 J		
Unknown (25.92)	ND	1,000 J	1,006 J		
Unknown (24.44)	ND	950 J	953 J		
Unknown Alkane (20.00)	ND	960 J	927 J		
Unknown (23.01)	ND	900 J	896 J		
Unknown (23.91)	ND	810 J	807 J		
Unknown (15.17)	ND	780 J	777 J		
Unknown (23.68)	ND	780 J	776 J		
Unknown (25.19)	ND	740 J	736 J		
Unknown Alkane (13.66)	ND	630 J	635 J		
Unknown (25.29)	ND	600 J	597 J		
Unknown (22.77)	ND	580 J	582 J		
Unknown Alkane (17.59)	ND	570 J	575 J		
Unknown (23.98)	ND	560 J	561 J		
Unknown Alkane (18.83)	ND	490 J	491 J		
Octadecanoic Acid (15.29)	ND	470 JN	470 JN		
Unknown (25.70)	ND	450 J	451 J		
Unknown (13.59)	ND	400 J	397 J		

**Data Validation Summary Table
For the Santa Road Landfill**

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-5(0-2") (Lab. #: 970437A-05)					
% Moisture = 12					
TCL Semivolatile Organics	(Undiluted)				
Phenol	330 U	380 U	380 U	R	Reject See Text
bis(2-Chloroethyl)Ether	330 U	380 U	380 U	R	Reject See Text
2-Chlorophenol	330 U	380 U	380 U	R	Reject See Text
1,3-Dichlorobenzene	330 U	380 U	380 U	R	Reject See Text
1,4-Dichlorobenzene	330 U	380 U	380 U	R	Reject See Text
1,2-Dichlorobenzene	330 U	380 U	380 U	R	Reject See Text
2-Methylphenol	330 U	380 U	380 U	R	Reject See Text
bis(2-Chloroisopropyl)ether	330 U	380 U	380 U	R	Reject See Text
4-Methylphenol	330 U	380 U	380 U	R	Reject See Text
N-Nitroso-di-n-propylamine	330 U	380 U	380 U	R	Reject See Text
Hexachloroethane	330 U	380 U	380 U	R	Reject See Text
Nitrobenzene	330 U	380 U	380 U	R	Reject See Text
Isophorone	330 U	380 U	380 U	R	Reject See Text
2-Nitrophenol	330 U	380 U	380 U	R	Reject See Text
2,4-Dimethylphenol	330 U	380 U	380 U	R	Reject See Text
bis(2-Chloroethoxy)methane	330 U	380 U	380 U	R	Reject See Text
2,4-Dichlorophenol	330 U	380 U	380 U	R	Reject See Text
1,2,4-Trichlorobenzene	330 U	380 U	380 U	R	Reject See Text
Naphthalene	330 U	380 U	380 U	R	Reject See Text
4-Chloroaniline	330 U	380 U	380 U	R	Reject See Text
Hexachlorobutadiene	330 U	380 U	380 U	R	Reject See Text
4-Chloro-3-methylphenol	330 U	380 U	380 U	R	Reject See Text
2-Methylnaphthalene	330 U	380 U	380 U	R	Reject See Text
Hexachlorocyclopentadiene	330 U	380 U	380 U	R	Reject See Text
2,4,6-Trichlorophenol	330 U	380 U	380 U	R	Reject See Text
2,4,5-Trichlorophenol	800 U	910 U	960 U	R	Reject See Text
2-Chloronaphthalene	330 U	380 U	380 U	R	Reject See Text
2-Nitroaniline	800 U	910 U	960 U	R	Reject See Text
Dimethylphthalate	330 U	380 U	380 U	R	Reject See Text
Acenaphthylene	330 U	380 U	380 U	R	Reject See Text
2,6-Dinitrotoluene	330 U	380 U	380 U	R	Reject See Text
3-Nitroaniline	800 U	910 U	960 U	R	Reject See Text
Acenaphthene	330 U	380 U	380 U	R	Reject See Text
2,4-Dinitrophenol	800 U	910 U	960 U	R	Reject See Text
4-Nitrophenol	330 U	380 U	380 U	R	Reject See Text
Dibenzofuran	330 U	380 U	380 U	R	Reject See Text
2,4-Dinitrotoluene	330 U	380 U	380 U	R	Reject See Text
Diethylphthalate	11 J	380 U	380 U	R	Reject See Text
4-Chlorophenyl-phenylether	330 U	380 U	380 U	R	Reject See Text, 16
Fluorene	330 U	380 U	380 U	R	Reject See Text, 16
4-Nitroaniline	800 U	910 U	960 U	R	Reject See Text
4,6-Dinitro-2-methylphenol	800 U	910 U	960 U	R	Reject See Text
N-Nitrosodiphenylamine (1)	330 U	380 U	380 U	R	Reject See Text
4-Bromophenyl-phenylether	330 U	380 U	380 U	R	Reject See Text
Hexachlorobenzene	330 U	380 U	380 U	R	Reject See Text
Pentachlorophenol	800 U	910 U	960 U	R	Reject See Text
Phenanthrene	330 U	380 U	380 U	R	Reject See Text
Anthracene	330 U	380 U	380 U	R	Reject See Text
Carbazole	330 U	380 U	380 U	R	Reject See Text
Di-n-Butylphthalate	9 J	5 JB	5 JB	R	Reject See Text, 1
Fluoranthene	330 U	380 U	380 U	R	Reject See Text
Pyrene	330 U	380 U	380 U	R	Reject See Text
Butylbenzylphthalate	330 U	380 U	380 U	R	Reject See Text
3,3'-Dichlorobenzidine	330 U	380 U	380 U	R	Reject See Text
Benzo(a)anthracene	330 U	380 U	380 U	R	Reject See Text
Chrysene	330 U	380 U	380 U	R	Reject See Text
Bis(2-Ethylhexyl)phthalate	25 J	380 U	380 U	R	Reject See Text
Di-n-octylphthalate	330 U	380 U	380 U	R	Reject See Text
Benzo(b)fluoranthene	330 U	380 U	380 U	R	Reject See Text
Benzo(k)fluoranthene	330 U	380 U	380 U	R	Reject See Text
Benzo(a)pyrene	330 U	380 U	380 U	R	Reject See Text
Indeno(1,2,3-cd)pyrene	330 U	380 U	380 U	R	Reject See Text
Dibenz(a,h)anthracene	330 U	380 U	380 U	R	Reject See Text
Benzo(g,h,i)perylene	330 U	380 U	380 U	R	Reject See Text, 15
Non-Target Semivolatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

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Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method	Lab.	QA		Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc.	Decision		
Reanalysis of Sample SS-S-5(0-27) (Lab. #: 970437A-05)						
TCL Semivolatile Organics						
(Undiluted)						
% Moisture = 12						
Phenol	330 U	380 U	380 U	J	quality	81
bis(2-Chloroethyl)Ether	330 U	380 U	380 U	J	quality	81
2-Chlorophenol	330 U	380 U	380 U	J	quality	81
1,3-Dichlorobenzene	330 U	380 U	380 U	J	quality	81
1,4-Dichlorobenzene	330 U	380 U	380 U	J	quality	81
1,2-Dichlorobenzene	330 U	380 U	380 U	J	quality	81
2-Methylphenol	330 U	380 U	380 U	J	quality	81
bis(2-Chloroisopropyl)ether	330 U	380 U	380 U	J	quality	81
4-Methylphenol	330 U	380 U	380 U	J	quality	81
N-Nitroso-di-n-propylamine	330 U	380 U	380 U	J	quality	81
Hexachloroethane	330 U	380 U	380 U	J	quality	81
Nitrobenzene	330 U	380 U	380 U	J	quality	81
Isophorone	330 U	380 U	380 U	J	quality	81
2-Nitrophenol	330 U	380 U	380 U	J	quality	81
2,4-Dimethylphenol	330 U	380 U	380 U	J	quality	81
bis(2-Chloroethoxy)methane	330 U	380 U	380 U	J	quality	81
2,4-Dichlorophenol	330 U	380 U	380 U	J	quality	81
1,2,4-Trichlorobenzene	330 U	380 U	380 U	J	quality	81
Naphthalene	330 U	380 U	380 U	J	quality	81
4-Chloroaniline	330 U	380 U	380 U	J	quality	81
Hexachlorobutadiene	330 U	380 U	380 U	J	quality	81
4-Chloro-3-methylphenol	330 U	380 U	380 U	J	quality	81
2-Methylnaphthalene	330 U	380 U	380 U	J	quality	81
Hexachlorocyclopentadiene	330 U	380 U	380 U	J	quality	81
2,4,6-Trichlorophenol	330 U	380 U	380 U	J	quality	81
2,4,5-Trichlorophenol	800 U	910 U	960 U	J	quality	81
2-Chloronaphthalene	330 U	380 U	380 U	J	quality	81
2-Nitroaniline	800 U	910 U	960 U	J	quality	81
Dimethylphthalate	330 U	380 U	380 U	J	quality	81
Acenaphthylene	330 U	380 U	380 U	J	quality	81
2,6-Dinitrotoluene	330 U	380 U	380 U	J	quality	81
3-Nitroaniline	800 U	910 U	960 U	J	quality	81
Acenaphthene	330 U	380 U	380 U	J	quality	81
2,4-Dinitrophenol	800 U	910 U	960 U	J	quality	81
4-Nitrophenol	330 U	380 U	380 U	J	quality	81
Dibenzofuran	330 U	380 U	380 U	J	quality	81
2,4-Dinitrotoluene	330 U	380 U	380 U	J	quality	81
Diethylphthalate	17 J	21 JB	380 U	J	quality	81
4-Chlorophenyl-phenylether	330 U	380 U	380 U	J	quality	16, 81
Fluorene	330 U	380 U	380 U	J	quality	16, 81
4-Nitroaniline	800 U	910 U	960 U	J	quality	81
4,6-Dinitro-2-methylphenol	800 U	910 U	960 U	J	quality	81
N-Nitrosodiphenylamine (1)	330 U	380 U	380 U	J	quality	81
4-Bromophenyl-phenylether	330 U	380 U	380 U	J	quality	81
Hexachlorobenzene	330 U	380 U	380 U	J	quality	81
Pentachlorophenol	800 U	910 U	960 U	J	quality	81
Phenanthrene	330 U	32 J	34 J	J	quality	81
Anthracene	330 U	5 J	5 J	J	quality	81
Carbazole	330 U	380 U	380 U	J	quality	81
Di-n-Butylphthalate	18 J	26 JB	380 U	J	negate	1, 81
Fluoranthene	330 U	89 J	92 J	J	quality	81
Pyrene	330 U	90 J	93 J	J	quality	81
Butylbenzylphthalate	330 U	380 U	380 U	J	quality	81
3,3'-Dichlorobenzidine	330 U	380 U	380 U	J	quality	81
Benzo(a)anthracene	330 U	33 J	34 J	J	quality	81
Chrysene	330 U	59 J	61 J	J	quality	81
Bis(2-Ethylhexyl)phthalate	59 J	130 JB	139 JB	J	negate	1, 81
Di-n-octylphthalate	330 U	380 U	380 U	J	quality	81
Benzo(b)fluoranthene	330 U	65 J	67 J	J	quality	81
Benzo(k)fluoranthene	330 U	44 J	46 J	J	quality	15, 81
Benzo(a)pyrene	330 U	69 J	71 J	J	quality	81
Indeno(1,2,3-cd)pyrene	330 U	67 J	69 J	J	quality	81
Dibenz(a,h)anthracene	330 U	380 U	380 U	J	quality	81
Benzo(a,h)perylene	330 U	140 J	148 J	J	quality	15, 81

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

	Method	Lab.	QA		
	Blank	Reported	Validation		
	Conc.	Conc.	Reported		
	(PPB)	(PPB)	Conc.		
Sample / Analyte			Decision	Qualifiers	Footnotes
Reanalysis of Sample SS-S-5(0-2") (Lab. #: 970437A-05)					
			% Moisture = 12		
Non-Target Semivolatile Organics					
Unknown (25.44)	ND	2,200 J	2,308 J	qualify	81
Unknown Alkane (21.14)	93 J	500 JB	514 JB	qualify	3, 81
Unknown (25.58)	ND	490 J	509 J	qualify	81
Unknown (23.47)	ND	440 J	454 J	qualify	81
Unknown Alkane (22.48)	ND	280 J	291 J	qualify	81
Unknown (23.84)	ND	280 J	286 J	qualify	81
Unknown (23.52)	ND	270 J	276 J	qualify	81
Unknown Alkane (20.00)	ND	260 J	267 J	qualify	81
Unknown (25.88)	ND	240 J	246 J	qualify	81
Unknown (23.04)	ND	200 J	209 J	qualify	81
Unknown (19.68)	ND	190 J	196 J	qualify	81
Unknown Alkane (24.20)	ND	180 J	186 J	qualify	81
Unknown (21.91)	ND	160 J	166 J	qualify	81
Unknown (22.73)	ND	160 J	164 J	qualify	81
Unknown (5.12)	81 J	150 JB	156 JB	negate	1, 81
Unknown (24.69)	ND	140 J	146 J	qualify	81
Unknown (24.56)	ND	130 J	138 J	qualify	81
Unknown (15.16)	ND	120 J	130 J	qualify	81
Hexadecanoic Acid (13.71)	ND	120 JN	128 JN	qualify	81
Unknown (25.13)	ND	120 J	119 J	qualify	81
Unknown (24.08)	ND	110 J	118 J	qualify	81
Unknown (23.65)	ND	110 J	117 J	qualify	81
Unknown (26.41)	ND	110 J	113 J	qualify	81
Unknown (24.50)	ND	100 J	104 J	qualify	81
Unknown (8.83)	ND	100 J	104 J	qualify	81
Unknown (5.46)	82 J	98 JB	100 JB	negate	1, 81
Unknown (5.74)	74 J	94 JB	97 JB	negate	1, 81
Unknown (22.98)	ND	94 J	98 J	qualify	81
Unknown (18.84)	ND	92 J	96 J	qualify	81
Unknown (20.83)	ND	91 J	94 J	qualify	81

Data Validation Summary Table
For the Santa Road Landfill

Soil TCL Semi-volatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte		Method		Lab.		Validation		Qualifiers	Footnotes
		Blank	Conc.	Reported	Conc.	Reported	Conc.		
		(PPB)			(PPB)		Decision		
TCL Semi-volatile Organics									
(Undiluted)									
% Moisture = 15									
Phenol	330 U	390 U	400 U						
bis(2-Chloroethyl)Ether	330 U	390 U	400 U						
2-Chlorophenol	330 U	390 U	400 U						
1,3-Dichlorobenzene	330 U	390 U	400 U						
1,4-Dichlorobenzene	330 U	390 U	400 U						
1,2-Dichlorobenzene	330 U	390 U	400 U						
2-Methylphenol	330 U	390 U	400 U						
bis(2-Chloroisopropyl)ether	330 U	390 U	400 U						
4-Methylphenol	330 U	200 J	199 J						
N-Nitroso-di-n-propylamine	330 U	390 U	400 U						
Hexachloroethane	330 U	390 U	400 U						
Nitrobenzene	330 U	390 U	400 U						
Isophorone	330 U	390 U	400 U						
2-Nitrophenol	330 U	390 U	400 U						
2,4-Dimethylphenol	330 U	390 U	400 U						
bis(2-Chloroethoxy)methane	330 U	390 U	400 U						
2,4-Dichlorophenol	330 U	390 U	400 U						
1,2,4-Trichlorobenzene	330 U	390 U	400 U						
Naphthalene	330 U	6 J	6 J						
4-Chloroaniline	330 U	390 U	400 U						
Hexachlorobutadiene	330 U	390 U	400 U						
4-Chloro-3-methylphenol	330 U	390 U	400 U						
2-Methylnaphthalene	330 U	390 U	400 U						
Hexachlorocyclopentadiene	330 U	390 U	400 U						
2,4,6-Trichlorophenol	330 U	390 U	400 U						
2,4,5-Trichlorophenol	800 U	940 U	990 U						
2-Chloronaphthalene	330 U	390 U	400 U						
2-Nitroaniline	800 U	940 U	990 U						
Dimethylphthalate	330 U	390 U	400 U						
Acenaphthylene	330 U	9 J	9 J						
2,6-Dinitrotoluene	330 U	390 U	400 U						
3-Nitroaniline	800 U	940 U	990 U						
Acenaphthene	330 U	390 U	400 U						
2,4-Dinitrophenol	800 U	940 U	990 U						
4-Nitrophenol	330 U	390 U	400 U						
Dibenzofuran	330 U	390 U	400 U						
2,4-Dinitrotoluene	330 U	390 U	400 U						
Diethylphthalate	11 J	14 JB	14 JB						
4-Chlorophenyl-phenylether	330 U	390 U	400 U						
Fluorene	330 U	390 U	400 U						
4-Nitroaniline	800 U	940 U	990 U						
4,6-Dinitro-2-methylphenol	800 U	940 U	990 U						
N-Nitrosodiphenylamine (1)	330 U	390 U	400 U						
4-Bromophenyl-phenylether	330 U	390 U	400 U						
Hexachlorobenzene	330 U	390 U	400 U						
Pentachlorophenol	800 U	940 U	990 U						
Phenanthrene	330 U	100 J	106 J						
Anthracene	330 U	21 J	21 J						
Carbazole	330 U	390 U	400 U						
Di-n-Butylphthalate	9 J	17 JB	17 JB						
Fluoranthene	330 U	250 J	265 J						
Pyrene	330 U	160 J	165 J						
Butylbenzylphthalate	330 U	17 J	17 J						
3,3-Dichlorobenzidine	330 U	390 U	400 U						
Benzo(a)anthracene	330 U	120 J	120 J						
Chrysene	330 U	170 J	169 J						
Bis(2-Ethylhexyl)phthalate	25 J	130 JB	134 JB						
Di-n-octylphthalate	330 U	390 U	400 U						
Benzo(b)fluoranthene	330 U	170 J	170 J						
Benzo(k)fluoranthene	330 U	130 J	135 J						
Benzo(a)pyrene	330 U	150 J	155 J						
Indenol(1,2,3-cd)pyrene	330 U	85 J	85 J						
Dibenz(a,h)anthracene	330 U	29 J	29 J						
Benzo(g,h,i)perylene	330 U	48 J	49 J						

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision		
Sample SS-S-6(0-2") (Lab. #: 970437A-06)					
			% Moisture = 15		
Non-Target Semivolatile Organics					
Unknown Alkane (21.20)	ND	2,100 J	2,136 J		
Unknown ALkane (20.04)	ND	940 J	935 J		
Hexadecanoic acid (13.74)	ND	660 JN	666 JN		
Gamma.-Stisterol (23.47)	ND	600 JN	598 JN		
Stigmasterol (22.97)	ND	470 JN	472 JN		
Unknown Alkane (22.54)	ND	440 J	441 J		
Unknown (24.63)	ND	360 J	359 J		
Unknown (24.18)	ND	350 J	353 J		
Unknown (24.49)	ND	320 J	318 J		
Unknown (25.24)	ND	300 J	302 J		
Unknown (25.35)	ND	290 J	294 J		
Unknown Alkane (18.85)	ND	270 J	270 J		
Unknown (17.45)	ND	260 J	260 J		
Unknown (25.98)	ND	260 J	256 J		
Unknown (24.01)	ND	250 J	248 J		
Unknown (13.67)	ND	230 J	235 J		
Unknown (21.90)	ND	230 J	235 J		
Unknown (23.72)	ND	230 J	234 J		
Unknown (24.79)	ND	210 J	209 J		
Unknown (17.60)	ND	200 J	196 J		
Caryophyllene (9.29)	ND	190 JN	187 JN		
Unknown (15.18)	ND	180 J	182 J		
Unknown (18.73)	ND	180 J	181 J		
Unknown Alkane (16.25)	ND	180 J	177 J		
Unknown (20.87)	ND	180 J	177 J		
Unknown (21.34)	ND	170 J	166 J		
Unknown (23.87)	ND	160 J	164 J		
Unknown (23.10)	ND	160 J	158 J		
Unknown (21.54)	ND	160 J	155 J		
Octadecanoic Acid (15.29)	ND	150 JN	154 JN		

Data Validation Summary Table
For the Sonia Road Landfill

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Soil TCL Semivolatile Organic Analyses - Method 85-2
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc.	Qualifiers	Footnotes
Sample SS-S-7(0-Z') (Lab. #: 970437A-07)					
TCL Semivolatile Organics					
(Undiluted)					
Phenol	330 U	420 U	430 U		
bis(2-Chloroethyl)Ether	330 U	420 U	430 U		
2-Chlorophenol	330 U	420 U	430 U		
1,3-Dichlorobenzene	330 U	420 U	430 U		
1,4-Dichlorobenzene	330 U	420 U	430 U		
1,2-Dichlorobenzene	330 U	420 U	430 U		
2-Methylphenol	330 U	420 U	430 U		
bis(2-Chloroisopropyl)ether	330 U	420 U	430 U		
4-Methylphenol	330 U	420 U	430 U		
N-Nitroso-di-n-propylamine	330 U	420 U	430 U		
Hexachloroethane	330 U	420 U	430 U		
Nitrobenzene	330 U	420 U	430 U		
Isophorone	330 U	420 U	430 U		
2-Nitrophenol	330 U	420 U	430 U		
2,4-Dimethylphenol	330 U	420 U	430 U		
bis(2-Chloroethoxy)methane	330 U	420 U	430 U		
2,4-Dichlorophenol	330 U	420 U	430 U		
1,2,4-Trichlorobenzene	330 U	420 U	430 U		
Naphthalene	330 U	420 U	430 U		
4-Chloroaniline	330 U	420 U	430 U		
Hexachlorobutadiene	330 U	420 U	430 U		
4-Chloro-3-methylphenol	330 U	420 U	430 U		
2-Methylnaphthalene	330 U	420 U	430 U		
Hexachlorocyclopentadiene	330 U	420 U	430 U		
2,4,6-Trichlorophenol	330 U	420 U	430 U		
2,4,5-Trichlorophenol	800 U	1,000 U	1,060 U		
2-Chloronaphthalene	330 U	420 U	430 U		
2-Nitroaniline	800 U	1,000 U	1,060 U		
Dimethylphthalate	330 U	420 U	430 U		
Acenaphthylene	330 U	420 U	430 U		
2,6-Dinitrotoluene	330 U	420 U	430 U		
3-Nitroaniline	800 U	1,000 U	1,060 U		
Acenaphthene	330 U	420 U	430 U		
2,4-Dinitrophenol	800 U	1,000 U	1,060 U		
4-Nitrophenol	330 U	420 U	430 U		
Dibenzofuran	330 U	420 U	430 U		
2,4-Dinitrotoluene	330 U	420 U	430 U		
Diethylphthalate	11 J	21 JB	21 JB	negate	1
4-Chlorophenyl-phenylether	330 U	420 U	430 U	quality	16
Fluorene	330 U	420 U	430 U	quality	16
4-Nitroaniline	800 U	1,000 U	1,060 U		
4,6-Dinitro-2-methylphenol	800 U	1,000 U	1,060 U		
N-Nitrosodiphenylamine (1)	330 U	420 U	430 U		
4-Bromophenyl-phenylether	330 U	420 U	430 U		
Hexachlorobenzene	330 U	420 U	430 U		
Pentachlorophenol	800 U	1,000 U	1,060 U		
Phenanthrene	330 U	77 J	77 J		
Anthracene	330 U	12 J	12 J		
Carbazole	330 U	420 U	430 U	negate	1
Di-n-Butylphthalate	9 J	40 JB	40 JB		
Fluoranthene	330 U	180 J	176 J		
Pyrene	330 U	140 J	136 J		
Butylbenzylphthalate	330 U	40 J	40 J		
3,3'-Dichlorobenzidine	330 U	420 U	430 U		
Benzo(a)anthracene	330 U	79 J	79 J		
Chrysene	330 U	120 J	118 J	negate	1
Bis(2-Ethylhexyl)phthalate	25 J	360 JB	367 JB		
Di-n-octylphthalate	330 U	420 U	430 U		
Benzo(b)fluoranthene	330 U	110 J	113 J		
Benzo(k)fluoranthene	330 U	88 J	88 J	quality	15
Benzo(a)pyrene	330 U	100 J	100 J		
Indeno(1,2,3-cd)pyrene	330 U	89 J	89 J		
Dibenz(a,h)anthracene	330 U	420 U	430 U		
Benzo(g,h,i)perylene	330 U	52 J	52 J	quality	15

% Moisture = 21

negate
quality
quality

negate

negate

quality

quality

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2

Samples Received February 27th & 28th, 1997

Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation		Qualifiers	Footnotes
			Reported Conc.	Decision		
Sample SS-S-7(0-2") (Lab. #: 970437A-07)						
			% Moisture = 21			
Non-Target Semivolatile Organics						
Unknown Alkane (21.18)	ND	3,100 J	3,088 J			
.Gamma.-Sitosterol (23.46)	ND	1,600 JN	1,625 JN			
Stigmasterol (22.93)	ND	1,200 JN	1,187 JN			
Unknown (24.16)	ND	1,200 J	1,163 J			
Unknown Carboxylic Acid (18.68)	ND	970 J	975 J			
Unknown (25.32)	ND	910 J	913 J			
Unknown (24.77)	ND	910 J	912 J			
Unknown (25.95)	ND	870 J	878 J			
Unknown (24.45)	ND	840 J	849 J			
Unknown (24.61)	ND	830 J	838 J			
Unknown (24.89)	ND	800 J	806 J			
Unknown (25.21)	ND	800 J	802 J			
Unknown Alkane (20.01)	ND	760 J	766 J			
Unknown Carboxylic Acid (18.29)	ND	690 J	693 J			
Unknown Carboxylic Acid (18.20)	ND	580 J	587 J			
Unknown Carboxylic Acid (18.57)	ND	490 J	492 J			
Unknown Carboxylic Acid (18.31)	ND	430 J	436 J			
Unknown (26.20)	ND	420 J	427 J			
Unknown Alkane (22.52)	ND	410 J	412 J			
Hexadecanoic Acid (13.72)	ND	380 JN	386 JN			
Unknown (18.93)	ND	380 J	385 J			
Unknown Acid (18.07)	ND	370 J	375 J			
Unknown (23.56)	ND	300 J	298 J			
Unknown Carboxylic Acid (18.38)	ND	260 J	262 J			
Unknown (22.78)	ND	260 J	258 J			
Unknown (21.29)	ND	250 J	256 J			
Unknown (23.06)	ND	210 J	208 J			
Unknown (13.59)	ND	200 J	205 J			
Unknown Carboxylic Acid (18.47)	ND	190 J	190 J			
Unknown (21.52)	ND	180 J	186 J			

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Semivolatile Organic Analyses - Method 95-2
Samples Received: February 27th & 28th, 1997
Sample Delivery Group: A0437
Laboratory Reference Numbers:

SS-S-1(0-2")	970437A-01
SS-S-2(0-2")	970437A-02
SS-S-3(0-2")	970437A-03
SS-S-4(0-2")	970437A-04
SS-S-4(0-2")MS	970437A-04MS
SS-S-4(0-2")MSB	970437A-04MSB
SS-S-4(0-2")MSD	970437A-04MSD
SS-S-5(0-2")	970437A-05
SS-S-5(0-2")RE	970437A-05RE
SS-S-6(0-2")	970437A-06
SS-S-7(0-2")	970437A-07

SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY
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Instrument ID: HP59711

Tune File ID: I9512

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: IC9513

Date: 03/04/97

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Associated Samples: SBLKUI, SBLKK1, SBLKKIFMS, S-4(0-2'')MSB, SS-S-2(0-2''), SS-S-3(0-2''), SS-S-4(0-2''),
 SS-S-7(0-2''), SS-S-6(0-2''), SS-S-5(0-2''), SS-S-4(0-2'')MS, SS-S-4(0-2'')MSD, SS-S-1(0-2''), SBLKAI,
 SBLKAIFMS, SS-S-5(0-2'')RE

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<20.5	>0.800	Acenaphthene *	<20.5	>0.800
bis(2-Chloroethyl)Ether *	<20.5	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<20.5	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<20.5	>0.600	Dibenzofuran *	<20.5	>0.800
1,4-Dichlorobenzene *	<20.5	>0.500	2,4-Dinitrotoluene *	<20.5	>0.200
1,2-Dichlorobenzene *	<20.5	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<20.5	>0.700	4-Chlorophenyl-phenylether*	<20.5	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<20.5	>0.900
4-Methylphenol *	<20.5	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<20.5	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<20.5	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<20.5	>0.200	4-Bromophenyl-phenylether *	<20.5	>0.100
Isophorone *	<20.5	>0.400	Hexachlorobenzene *	<20.5	>0.100
2-Nitrophenol *	<20.5	>0.100	Pentachlorophenol *	<20.5	>0.050
2,4-Dimethylphenol *	<20.5	>0.200	Phenanthrene *	<20.5	>0.700
bis(2-Chloroethoxy)methane *	<20.5	>0.1000	Anthracene *	<20.5	>0.700
2,4-Dichlorophenol *	<20.5	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<20.5	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<20.5	>0.700	Fluoranthene *	<20.5	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<20.5	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<20.5	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<20.5	>0.400	Benzo(a)anthracene *	<20.5	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<20.5	>0.700
2,4,6-Trichlorophenol *	<20.5	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<20.5	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<20.5	>0.800	Benzo(b)fluoranthene *	<20.5	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<20.5	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<20.5	>0.700
Acenaphthylene *	<20.5	>0.1000	Indeno(1,2,3-cd)pyrene *	<20.5	>0.500
2,6-Dinitrotoluene *	<20.5	>0.200	Dibenz(a,h)anthracene *	<20.5	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	24%	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<20.5	>0.700			
Terphenyl-d14 *	<20.5	>0.500			
Phenol-d5 *	<20.5	>0.800			
2-Fluorophenol *	<20.5	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<20.5	>0.80			
1,2-Dichlorobenzene-d4 *	<20.5	>0.40			

All Compounds Average RRF > QC Limit: no

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes

Footnote:

Footnote:

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY**
(Page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = A_{is}/A_x \cdot C_{is}/C_s)$$

Compound:	Acenaphthylene	Indeno(1,2,3-cd)pyrene
PPB		
20	$316998/336734 \cdot 2.000 = 1.883$	$111844/245134 \cdot 2.000 = 0.913$
50	$821197/355866 \cdot 0.800 = 1.846$	$236402/187479 \cdot 0.800 = 1.009$
80	$1033381/305908 \cdot 0.500 = 1.689$	$319401/159336 \cdot 0.500 = 1.002$
120	$1453219/320569 \cdot 0.333 = 1.511$	$557681/151354 \cdot 0.333 = 1.227$
160	$1761838/311355 \cdot 0.250 = 1.415$	$800849/142217 \cdot 0.250 = 1.408$
AV. RRF = 1.669	%RSD = 12.2 %	AV. RRF = 1.112 %RSD = 18.2%

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: HP59711

Tune File ID: I9557

Calibration File ID: IC9557

Initial Calibration File ID: IC9513

Acceptable: yes

Date: 03/05/97

Date: 03/04/97

Time Requirements Met: yes

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Associated Samples: SBLKUI, SBLKK1, SBLKKIFMS, S-4(0-2'')MSB, SS-S-2(0-2''), SS-S-3(0-2''), SS-S-4(0-2''),
 SS-S-7(0-2''), SS-S-6(0-2'')

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	28%	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: no

Footnote:

Footnote: 15

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: 2-Methylnaphthalene
 PPB

Hexachlorobenzene

50 504348/654812 * 0.800 = 0.616

124344/462856 * 0.800 = 0.215

PERCENT DIFFERENCE:

$$(0.542 - 0.616) / 0.542 * 100 = -13.653137$$

$$(0.199 - 0.215) / 0.199 * 100 = -8.040201$$

METHOD BLANK: SBLKUI (Page 519)

This method blank is associated with samples SS-S-2(0-2"), SS-S-3(0-2") and SS-S-1(0-2")

Compound	ppb	<CRDL
Diethylphthalate	9J	330
Di-n-butylphthalate	18J	330
bis(2-Ethylhexyl)phthalate	79J	330
Unknown Alkane (20.44)	190J	NA
Unknown Alkane (20.72)	160J	NA
Unknown Alkane (21.01)	140J	NA
Unknown Alkane (23.25)	120J	NA
Unknown Alkane (21.97)	110J	NA
Unknown Alkane (20.89)	98J	NA
Unknown Alkane (20.17)	97J	NA
Unknown Alkane (21.50)	86	NA
Unknown (19.68)	82	NA
Unknown Alkane (22.40)	77J	NA
Unknown Alkane (22.69)	73J	NA
Unknown Alkane (21.31)	73J	NA
Unknown Alkane (19.99)	68J	NA

METHOD BLANK: SBLKKI (Page 549)

This method blank is associated with samples MSB, SS-S-4(0-2"), SS-S-4(0-2")MS, SS-S-4(0-2")MSD, SS-S-7(0-2"), SS-S-5(0-2") and SS-S-6(0-2")

Compound	ppb	<CRDL
Diethylphthalate	11J	330
Di-n-butylphthalate	9J	330
bis(2-Ethylhexyl)phthalate	25J	330
Unknown (8.83)	76J	NA

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: HP59711

Tune File ID: I9574

Calibration File ID: IC9574

Initial Calibration File ID: IC9513

Associated Samples: SS-S-5(0-2), SS-S-4(0-2)"MS, SS-S-4(0-2)"MSD, SS-S-1(0-2)"

Acceptable: yes

Date: 03/06/97

Date: 03/04/97

Time Requirements Met: yes

Page: 508

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TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Naphthalene
PPB

Benzo(k)fluoranthene

50 878524/706066 * 0.800 = 0.995

238913/171258 * 0.800 = 1.116

PERCENT DIFFERENCE:

$$(0.899 - 0.995) / 0.899 * 100 = -10.678532$$

$$(0.997 - 1.116) / 0.997 * 100 = -11.935807$$

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: HP59711

Tune File ID: I9590

Calibration File ID: IC9590

Initial Calibration File ID: IC9513

Associated Samples: SBLKAI, SBLKAIFMS, SS-S-5(0-2")RE

Acceptable: yes

Date: 03/07/97

Date: 03/04/97

Time Requirements Met: yes

Page: 113 (addendum to report)

Page: 468

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Phenanthrene
 PPB

Benzo(g,h,i)perylene

50 571694/469293 * 0.800 = 0.975

155867/155128 * 0.800 = 0.804

PERCENT DIFFERENCE:

$$(0.917 - 0.975) / 0.917 * 100 = -6.324973$$

$$(0.972 - 0.804) / 0.972 * 100 = 17.283951$$

METHOD BLANK: SBLKAI (Page 124 - Addendum)

This method blank is associated with samples SBLKAI, SBLKAIFMS, SS-S-5(0-2")RE

Compound	ppb	<CRDL
Diethylphthalate	17J	330
Di-n-butylphthalate	18J	330
bis(2-Ethylhexyl)phthalate	59J	330
Unknown Alkane (20.72)	200J	NA
Unknown Alkane (20.90)	120J	NA
Unknown Alkane (20.42)	100J	NA
Unknown Alkane (21.13)	93J	NA
Unknown Alkane (21.31)	92J	NA
Unknown Alkane (21.01)	89J	NA
Unknown Alkane (21.51)	88J	NA
2,5-Hexanedione (5.21)	85JN	NA
Unknown (5.47)	82J	NA
Unknown (5.12)	81J	NA
Unknown (5.74)	74J	NA
Unknown (21.05)	70J	NA
Unknown Alkane (20.17)	70J	NA

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Pesticide and PCB Analyses

Samples Received: February 27th & 28th, 1997

Sample Delivery Group: A0437

Laboratory Reference Numbers:

SS-S-1(0-2")	970437A-01
SS-S-2(0-2")	970437A-02
SS-S-3(0-2")	970437A-03
SS-S-4(0-2")	970437A-04
SS-S-4(0-2")MS	970437A-04MS
SS-S-4(0-2")MD	970437A-04MD
SS-S-5(0-2")	970437A-05
SS-S-6(0-2")	970437A-06
SS-S-7(0-2")	970437A-07

Soil samples were received for analyses of the pesticide and PCB TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
 - Laboratory Blanks
 - Field Blanks
- * - Surrogate Recoveries
- * - Surrogate Retention Times
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
 - Calibrations
 - Analyte Resolutions
 - Performance Evaluation Mixtures
- * - IND A and IND B Standards
- * - Florisil Cartridge Check
- * - GPC Calibration
 - Compound Identification
- * - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The laboratory's case narrative notes that "alpha chlordane was outside of retention time windows on the DB-1701 column in samples SS-S-2(0-2"), SS-S-3(0-2"), SS-S-5(0-2"), SS-S-4(0-2"), its matrix spike and matrix spike duplicate. In the analyst's opinion, this compound was present in the samples." No problems were noted with the retention time windows of any of the standards or other compounds. The alpha chlordane in these samples were flagged with the "See Text" notation. The data should be looked at in more detail in the presence of alpha chlordane in these samples has a significant effect on the end use of the data.

The problems with the overlap of some of the TCL pesticides should be noted by all end users of the data.

The minor calibration problems should also be noted.

No other problems were found with the analyses of these samples which would affect the end use of the data.



Nancy J. Potak
October 24, 1997

Holding Times

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

All surrogate recoveries were within the required quality assurance limits.

Matrix Spike

SS-S-4(0-2") (Lab. #: 970437A-04) was used as the matrix spike. All recoveries and RPDs were within the acceptable limits.

Blank Spike

All of the blank spike recoveries were within the acceptable limits.

The NYS DEC ASP blank spike limits were originally reported on the Blank Spike Summary form (FORM III), but they were crossed out and narrower limits were handwritten in. All of the NYS DEC ASP quality assurance requirements were met in the analysis of the blank spike.

Initial Calibrations

A few minor problems were found with the initial calibrations:

The percent RSDs of alpha-BHC (20.6%) and methoxychlor (25%) on the DB-1701 column were above the 20% limit.

The percent RSD of methoxychlor on the DB-608 column (29%) was just above the 20% limit.

These compounds were flagged with the "J" qualifier and footnoted with #15 in the data validation summary table to indicate that the %RSD was above the 20% quality assurance limit.

The NYS DEC ASP manual (page E-94) states that "up to two single component target compounds per column may exceed the 20% limit for %RSD, but those compounds must have a percent RSD less than 30%" (page E-94). All of the NYS DEC ASP requirements were satisfied in the initial calibration.

No other problems were found with any of the initial calibrations.

Analyte Resolution

All percent resolutions were greater than 60% on both the DB-608 and DB-1701 columns.

Performance Evaluation Mixtures

Several minor problems with resolution were found between gamma-BHC and beta-BHC (97%, 97%, 95%, 96%). The NYS DEC ASP program requires that the resolution between all compounds in this standard be 100% (page E-89).

The relative percent difference of the calculated amount and the true amount for each of the single component pesticides and surrogates was less than or equal to 25%.

The breakdown of DDT and Endrin in both of the Performance Evaluation Mixtures was less than 20% and the combined breakdown of DDT and Endrin were less than 30% with the following exception:

PEM1M (analyzed 03/06 @ 12:25) DB-1701 Column

The endrin breakdown was 41% and the combined breakdown was 44%.

This standard was only associated with the analysis of sample SS-S-5(0-2").

No other problems were found with any of the performance evaluation mixtures.

Continuing Calibrations - IND A & IND B

All percent resolutions were greater than 90% on both the DB-608 and DB-1701 columns.

No other problems were detected with the INDA and INDB standards.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

Florisil Cartridge Check

All recoveries were within the 80% - 120% quality assurance limits.

The florisil cartridge check was performed on 3/06/97.

GPC Calibration

All of the GPC summary data were within the acceptable limits.

Method Blanks

No compounds were detected in the method blank.

Calibration Blanks

Very low concentrations of delta-BHC (0.0045J ug/l, 0.0072J ug/l and 0.0024J ug/l) were found in three of the four calibration blanks analyzed on the RTX-35 column.

Very low concentrations of DDT (0.0074J ug/l, 0.0069J ug/l, 0.0036J ug/l and 0.072 ug/l) in each of the four blanks analyzed on the DB-1701 column.

No other problems were detected with the method blanks associated with this sample delivery group.

Field Blanks

Field blanks were not collected with this sample delivery group.

Instrument Detection Limits

No problems were found with the reported instrument detection limits.

Sample Results

Sample SS-S-1(0-2") (Lab. #: 970437A-01)

The DDD (13 JP ug/kg) and endosulfan II (13 JP ug/kg) were quantitated from the same peak in the DB-1701 column. The laboratory's case narrative notes that the retention times for these compounds overlap on this column.

The endosulfan I (3.3 JP ug/kg) and alpha-chlordane (21 ug/kg) were quantitated from the same peak on the RTX-35 column.

The data for these compounds were flagged with the "J" qualifier and the "See Text" notation in the data validation summary table.

Sample SS-S-4(0-2") (Lab. #: 970437A-04)

The laboratory felt that alpha chlordane was present in this sample even though the retention time on the DB-1701 column (17.77) was considerably outside of the retention time window of 17.60 - 17.74. No significant problems with retention time drift was found in the standards of this sample delivery group. Alpha chlordane was flagged with the "See Text" notation in the data validation summary table. The data should be looked at in more detail in the presence of alpha chlordane in these samples has a significant effect on the end use of the data.

Sample SS-S-5(0-2") (Lab. #: 970437A-05)

The laboratory felt that alpha chlordane was present in this sample even though the retention time on the DB-1701 column (17.78) was considerably outside of the retention time window of 17.60 - 17.74. No significant problems with retention time drift was found in the standards of this sample delivery group. The data should be looked at in more detail in the presence of alpha chlordane in these samples has a significant effect on the end use of the data.

The DDD (9.4 JP ug/kg) and endosulfan II (7.0 JP ug/kg) were quantitated from the same peak in the DB-1701 column. The laboratory's case narrative notes that the retention times for these compounds overlap on this column.

The data for these compounds were flagged with the "J" qualifier and the "See Text" notation in the data validation summary table.

The endrin breakdown was 41% and the combined breakdown was 44% in the PEM standard which was analyzed after this sample on the DB-1701 column. Neither endrin, endrin aldehyde nor endrin ketone were detected in this sample.

No other problems were detected with any of the samples.

**Data Validation Summary Table
For the Sonia Road Landfill**

**Soil Pesticide and PCB Analyses
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437**

Sample Delivery Group: A0437		QA QA				
Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc. Decision	Qualifiers	Footnotes	
Sample SS-S-1 (0-2") (Lab. #: 970437A-01)						
		% Solids = 87				
Pesticides & PCBs	(Diluted 5X)					
alpha-BHC	1.7 U	9.8 U	9.8 U J	qualify	15	
beta-BHC	1.7 U	9.8 U	9.8 U			
delta-BHC	1.7 U	9.8 U	9.8 U			
gamma-BHC (Lindane)	1.7 U	9.8 U	9.8 U			
Heptachlor	1.7 U	9.8 U	9.8 U			
Aldrin	1.7 U	2.6 JP	2.6 JP			
Heptachlor Epoxide	1.7 U	3.9 JP	3.9 JP			
Endosulfan I	1.7 U	3.4 JP	3.4 JP	See Text		
Dieldrin	3.3 U	27	27			
4,4'- DDE	3.3 U	17 J	17 J			
Endrin	3.3 U	10 JP	10 JP			
Endosulfan II	3.3 U	13 JP	13 JP	See Text		
4,4' - DDD	3.3 U	13 JP	13 JP	See Text		
Endosulfan Sulfate	3.3 U	20 P	20 P			
4,4'-DDT	3.3 U	77	77			
Methoxychlor	17.0 U	6 JP	6 JP J	qualify	15	
Endrin Ketone	3.3 U	4 JP	4 JP			
Endrin Aldehyde	3.3 U	19 U	19 U			
alpha-Chlordane	1.7 U	21 P	21 P	See Text		
gamma-Chlordane	1.7 U	12 P	12 P			
Toxaphene	170 U	980 U	980 U			
Aroclor-1016	33 U	190 U	190 U			
Aroclor-1221	67 U	380 U	380 U			
Aroclor-1232	33 U	190 U	190 U			
Aroclor-1242	33 U	190 U	190 U			
Aroclor-1248	33 U	190 U	190 U			
Aroclor-1254	33 U	190 U	190 U			
Aroclor-1260	33 U	190 U	190 U			

Sample SS-S-2 (0-2") (Lab. #: 970437A-02)

	% Solids = 81				
Pesticides & PCBs	(Undiluted)				
alpha-BHC	1.7 U	2.1 U	2.1 U J	qualify	15
beta-BHC	1.7 U	2.1 U	2.1 U		
delta-BHC	1.7 U	2.1 U	2.1 U		
gamma-BHC (Lindane)	1.7 U	2.1 U	2.1 U		
Heptachlor	1.7 U	2.1 U	2.1 U		
Aldrin	1.7 U	2.1 U	2.1 U		
Heptachlor Epoxide	1.7 U	0.72 JP	0.72 JP		
Endosulfan I	1.7 U	2.1 U	2.1 U		
Dieldrin	3.3 U	0.92 JP	0.92 JP		
4,4'- DDE	3.3 U	2.0 JP	2.0 JP		
Endrin	3.3 U	0.99 JP	0.99 JP		
Endosulfan II	3.3 U	4.1 U	4.1 U		
4,4' - DDD	3.3 U	0.86 JP	0.86 JP		
Endosulfan Sulfate	3.3 U	0.12 JP	0.12 JP		
4,4'-DDT	3.3 U	8.2	8.2		
Methoxychlor	17.0 U	0.35 JP	0.35 JP J	qualify	15
Endrin Ketone	3.3 U	0.36 JP	0.36 JP		
Endrin Aldehyde	3.3 U	4.1 U	4.1 U		
alpha-Chlordane	1.7 U	1.3 JP	1.3 JP		
gamma-Chlordane	1.7 U	0.55 J	0.55 J		
Toxaphene	170 U	210 U	210 U		
Aroclor-1016	33 U	40.7 U	40.7 U		
Aroclor-1221	67 U	82.7 U	82.7 U		
Aroclor-1232	33 U	40.7 U	40.7 U		
Aroclor-1242	33 U	40.7 U	40.7 U		
Aroclor-1248	33 U	40.7 U	40.7 U		
Aroclor-1254	33 U	40.7 U	40.7 U		
Aroclor-1260	33 U	40.7 U	40.7 U		

Data Validation Summary Table
For the Sonia Road Landfill

Soil Pesticide and PCB Analyses
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc. Decision	Qualifiers	Footnotes

Sample SS-S-5 (0-2") (Lab. #: 970437A-05)

Pesticides & PCBs					
alpha-BHC	1.7 U	9.6 U	9.6 U J	quality	15
beta-BHC	1.7 U	9.6 U	9.6 U		
delta-BHC	1.7 U	9.6 U	9.6 U		
gamma-BHC (Lindane)	1.7 U	9.6 U	9.6 U		
Heptachlor	1.7 U	0.75 J	0.75 J		
Aldrin	1.7 U	9.6 U	9.6 U		
Heptachlor Epoxide	1.7 U	4.9 JP	4.9 JP		
Endosulfan I	1.7 U	9.6 U	9.6 U		
Dieldrin	3.3 U	19 U	19 U		
4,4'- DDE	3.3 U	16 JP	16 JP		
Endrin	3.3 U	19 U	19 U		
Endosulfan II	3.3 U	7.0 JP	7.0 JP		
4,4' - DDD	3.3 U	9.4 JP	9.4 JP		
Endosulfan Sulfate	3.3 U	19 U	19 U		
4,4'-DDT	3.3 U	68	68		
Methoxychlor	17.0 U	2.1 JP	2.1 JP	quality	15
Endrin Ketone	3.3 U	19 U	19 U		
Endrin Aldehyde	3.3 U	19 U	19 U		
alpha-Chlordane	1.7 U	27 P	27 P J	See Text	
gamma-Chlordane	1.7 U	29	29	See Text	
Toxaphene	170 U	960 U	960 U		
Aroclor-1016	33 U	190 U	190 U		
Aroclor-1221	67 U	380 U	380 U		
Aroclor-1232	33 U	190 U	190 U		
Aroclor-1242	33 U	190 U	190 U		
Aroclor-1248	33 U	190 U	190 U		
Aroclor-1254	33 U	190 U	190 U		
Aroclor-1260	33 U	190 U	190 U		

% Solids = 88

(Diluted 5X)

Sample SS-S-6 (0-2") (Lab. #: 970437A-06)

Pesticides & PCBs					
alpha-BHC	1.7 U	10 U	10 U J	quality	15
beta-BHC	1.7 U	10 U	10 U		
delta-BHC	1.7 U	10 U	10 U		
gamma-BHC (Lindane)	1.7 U	10 U	10 U		
Heptachlor	1.7 U	10 U	10 U		
Aldrin	1.7 U	1.1 J	1.1 J		
Heptachlor Epoxide	1.7 U	2.0 JP	2.0 JP		
Endosulfan I	1.7 U	10 U	10 U		
Dieldrin	3.3 U	7.6 JP	7.6 JP		
4,4'- DDE	3.3 U	52 P	52 P		
Endrin	3.3 U	19 U	19 U		
Endosulfan II	3.3 U	19 U	19 U		
4,4' - DDD	3.3 U	22	22		
Endosulfan Sulfate	3.3 U	0.55 JP	0.55 JP		
4,4'-DDT	3.3 U	96	96		
Methoxychlor	17.0 U	1.7 JP	1.7 JP J	quality	15
Endrin Ketone	3.3 U	19 U	19 U		
Endrin Aldehyde	3.3 U	19 U	19 U		
alpha-Chlordane	1.7 U	8.3 JP	8.3 JP		
gamma-Chlordane	1.7 U	6.3 J	6.3 J		
Toxaphene	170 U	1,000 U	1,000 U		
Aroclor-1016	33 U	190 U	190 U		
Aroclor-1221	67 U	390 U	390 U		
Aroclor-1232	33 U	190 U	190 U		
Aroclor-1242	33 U	190 U	190 U		
Aroclor-1248	33 U	190 U	190 U		
Aroclor-1254	33 U	190 U	190 U		
Aroclor-1260	33 U	190 U	190 U		

% Solids = 85

(Diluted 5X)

Data Validation Summary Table
For the Sonia Road Landfill

Soil Pesticide and PCB Analyses
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method	Lab.	QA		Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc.	Decision		
Sample SS-S-7 (0-2") (Lab. #: 970437A-07)						
Pesticides & PCBs						
alpha-BHC	(Diluted 5X) 1.7 U	11 U	11 U	11 U	J	quality
beta-BHC	1.7 U	11 U	11 U	11 U		
delta-BHC	1.7 U	11 U	11 U	11 U		
gamma-BHC (Lindane)	1.7 U	11 U	11 U	11 U		
Heptachlor	1.7 U	11 U	11 U	11 U		
Aldrin	1.7 U	11 U	11 U	11 U		
Heptachlor Epoxide	1.7 U	7.4 JP	7.4 JP	7.4 JP		
Endosulfan I	1.7 U	11 U	11 U	11 U		
Dieldrin	3.3 U	7.1 J	7.1 J	7.1 J		
4,4'- DDE	3.3 U	17 JP	17 JP	17 JP		
Endrin	3.3 U	4.4 JP	4.4 JP	4.4 JP		
Endosulfan II	3.3 U	21 U	21 U	21 U		
4,4' - DDD	3.3 U	19 JP	19 JP	19 JP		
Endosulfan Sulfate	3.3 U	21 U	21 U	21 U		
4,4'-DDT	3.3 U	82	82	82		
Methoxychlor	17.0 U	108 U	108 U	108 U	J	quality
Endrin Ketone	3.3 U	21 U	21 U	21 U		
Endrin Aldehyde	3.3 U	21 U	21 U	21 U		
alpha-Chlordane	1.7 U	26 P	26 P	26 P		
gamma-Chlordane	1.7 U	17 P	17 P	17 P		
Toxaphene	170 U	1,100 U	1,100 U	1,100 U		
Aroclor-1016	33 U	210 U	210 U	210 U		
Aroclor-1221	67 U	420 U	420 U	420 U		
Aroclor-1232	33 U	210 U	210 U	210 U		
Aroclor-1242	33 U	210 U	210 U	210 U		
Aroclor-1248	33 U	210 U	210 U	210 U		
Aroclor-1254	33 U	210 U	210 U	210 U		
Aroclor-1260	33 U	210 U	210 U	210 U		

[illegible]

Initial Calibration																					
INDAL																					
Page: 769		Date: 3/1/97		Time: 3:58		RTX-35						DB1701		RTX-35							
DB1701		RTX-35		DB1701		RTX-35		#1 Calc.				#2 Calc.				RT Window #1		RT Window #2			
RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From To OK	
																				CF 1 CF 2	
alpha-BHC		9.29		10.41		450,550		229,010		90,110,000		0.0050		1.00		45,802,000		0.0050		1.00	
beta-BHC																					
delta-BHC																					
gamma-BHC (Lindane)		10.47		11.53		449,755		241,154		89,951,000		0.0050		1.00		48,230,800		0.0050		1.00	
Heptachlor		11.15		12.63		418,114		244,240		83,622,800		0.0050		1.00		48,848,000		0.0050		1.00	
Aldrin																					
Heptachlor Epoxide																					
Endosulfan I		16.86		16.01		403,071		215,254		80,614,200		0.0050		1.00		43,050,800		0.0050		1.00	
Dieldrin		19.31		16.80		780,530		428,356		78,053,000		0.0100		1.00		42,835,600		0.0100		1.00	
4,4'- DDE																					
Endrin		20.54		17.68		530,613		329,678		53,061,300		0.0100		1.00		32,967,800		0.0100		1.00	
Endosulfan II																					
4,4' - DDD		23.24		118.06		567,127		333,852		56,712,700		0.0100		1.00		33,385,200		0.0100		1.00	
Endosulfan Sulfate																					
4,4'-DDT		23.96		18.86		462,019		331,719		46,201,900		0.0100		1.00		33,171,900		0.0100		1.00	
Methoxychlor		26.64		20.90		833,124		836,600		16,662,480		0.0500		1.00		16,732,000		0.0500		1.00	
Endrin Ketone																					
Endrin Aldehyde																					
alpha-Chlordane																					
gamma-Chlordane																					
TCX				8.37				246652		0		0.0050		###		49,330,400		0.0050		1.00	
DCB				24.61				476,892		0		0.0100		###		47,689,200		0.0100		1.00	
INDBL																					
Page: 457		Date: 12/12/96		Time: 4:37		RTX-35						DB1701		RTX-35							
DB1701		RTX-35		DB1701		RTX-35		#1 Calc.				#2 Calc.				RT Window #1		RT Window #2			
RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From To OK	
																				CF 1 CF 2	
alpha-BHC																					
beta-BHC		13.51		11.79		263,484		156,356		52,696,800		0.0050		1.00		31,271,200		0.0050		1.00	
delta-BHC		14.66		12.79		447,162		224,554		89,432,400		0.0050		1.00		44,910,800		0.0050		1.00	
gamma-BHC (Lindane)																					
Heptachlor																					
Aldrin		12.17		13.53		417,255		221,579		83,451,000		0.0050		1.00		44,315,800		0.0050		1.00	
Heptachlor Epoxide		15.38		15.05		447,229		239,334		89,445,800		0.0050		1.00		47,866,800		0.0050		1.00	
Endosulfan I																					
Dieldrin																					
4,4'- DDE		18.46		16.63		758,595		405,266		75,859,500		0.0100		1.00		40,526,600		0.0100		1.00	
Endrin																					
Endosulfan II		23.28		18.17		654,910		402,471		65,491,000		0.0100		1.00		40,247,100		0.0100		1.00	
4,4' - DDD																					
Endosulfan Sulfate		26.45		19.36		467,261		380,694		46,726,100		0.0100		1.00		38,069,400		0.0100		1.00	
4,4'-DDT																					
Methoxychlor																					
Endrin Ketone		27.86		21.12		439,120		407,471		43,912,000		0.0100		1.00		40,747,100		0.0100		1.00	
Endrin Aldehyde		25.16		18.95		366,525		332,889		36,652,500		0.0100		1.00		33,288,900		0.0100		1.00	
alpha-Chlordane		17.68		15.98		451,413		244,121		90,282,600		0.0050		1.00		48,824,200		0.0050		1.02	
gamma-Chlordane		17.33		15.57		465,351		252,456		93,070,200		0.0050		1.00		50,491,200		0.0050		1.00	
TCMX		7.09		8.36		406,232		245,316		81,246,400		0.0050		1.02		49,063,200		0.0050		0.99	
DCB		30.82		24.60		406,316		479,821		40,631,600		0.0100		1.03		47,982,100		0.0100		1.01	

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TCL Semivolatile Organic Analyses - Method 95-1
Samples Received August 1st and 5th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SB-2-1 (Lab. #: 9722223) Received August 5th					
TCLP Semivolatile Organics	(Undiluted)				
Pyridine	10 U	10 U	10 U		
1,4-Dichlorobenzene	10 U	10 U	10 U		
2-Methylphenol	10 U	10 U	10 U		
3-Methylphenol/4-Methylphenol	10 U	10 U	10 U		
Hexachloroethane	10 U	10 U	10 U		
Nitrobenzene	10 U	10 U	10 U		
Hexachlorobutadiene	10 U	10 U	10 U		
2,3,4-Trichlorophenol	10 U	10 U	10 U		
2,4,5-Trichlorophenol	25 U	25 U	25 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Hexachlorobenzene	10 U	10 U	10 U		
Pentachlorophenol	25 U	25 U	25 U	J qualify	15
Non-Target Semivolatile Organics					
Unknown Acid (5.06)	ND	10 J	10 J		
Unknown Acid (6.12)	ND	3 J	3 J		
Unknown Acid (6.34)	ND	2 J	2 J		
Unknown Acid (7.09)	ND	34 J	34 J		

Data Validation Summary Table
For the Santa Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-1
Samples Received August 1st and 5th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA		Footnotes
			Validation Reported Conc. Decision	Qualifiers	
Sample SB-3-1 (Lab. #: 9721875) Received August 1st					
TCLP Semivolatile Organics					
Pyridine	(Undiluted)				
1,4-Dichlorobenzene	10 U	10 U	10 U		
2-Methylphenol	10 U	10 U	10 U		
3-Methylphenol/4-Methylphenol	10 U	3 J	3 U		
Hexachloroethane	10 U	10 U	10 U		
Nitrobenzene	10 U	10 U	10 U		
Hexachlorobutadiene	10 U	10 U	10 U		
2,3,4-Trichlorophenol	10 U	10 U	10 U		
2,4,5-Trichlorophenol	25 U	25 U	25 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Hexachlorobenzene	10 U	10 U	10 U		
Pentachlorophenol	25 U	25 U	25 U	J	15 quality
Non-Target Semivolatile Organics					
Unknown Acid (5.07)	NA	5 J	5 J		
Unknown Acid (7.06)	NA	21 J	21 J		
Unknown Acid (12.16)	NA	20 J	20 J		
Unknown Acid (13.68)	NA	7 J	7 J		
Unknown Subs. phenol (15.28)	NA	4 J	4 J		
Unknown Acid (16.29)	NA	6 J	6 J		
Unknown Acid (17.68)	NA	7 J	7 J		
Unknown Acid (18.15)	NA	18 J	18 J		
Unknown Acid (20.75)	NA	40 J	40 J		
Unknown Acid (20.90)	NA	5 J	5 J		
Unknown Acid (21.44)	NA	22 J	22 J		
Unknown Subs. phenol (22.70)	NA	5 J	5 J		
Unknown (22.81)	NA	4 J	3 J		
Unknown PNA (23.98)	NA	9 J	9 J		
Unknown Acid (25.25)	NA	119 J	19 J		
Unknown Alcohol (25.95)	NA	5 J	5 J		
Unknown Acid (26.13)	NA	17 J	18 J		
Unknown (26.76)	NA	5 J	4 J		
Unknown Acid (29.31)	NA	9 J	9 J		
Unknown Alcohol (31.47)	NA	6 J	6 J		

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Semivolatile TCLP Analyses

Samples Received: August 1st and 5th, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-2-1	9722223
SB2-1MS	9722223MS
SB2-1-MSD	9722223MSD
SB-3-1	9721875

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY
(Page 1 of 2)**

Instrument ID: H5970B

Tune File ID: B02027.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: B02028.D

Date: 08/15/97

Page: 167

Associated Samples: TBLK8/5, TBLK8/8, SBLK02, SB-3-1, SB-2-1, SB-2-1MS, SB-2-1MSD

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<20.5	>0.800	Acenaphthene *	<20.5	>0.800
bis(2-Chloroethyl)Ether *	<20.5	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<20.5	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<20.5	>0.600	Dibenzofuran *	<20.5	>0.800
1,4-Dichlorobenzene *	<20.5	>0.500	2,4-Dinitrotoluene *	<20.5	>0.200
1,2-Dichlorobenzene *	<20.5	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<20.5	>0.700	4-Chlorophenyl-phenylether*	<20.5	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<20.5	>0.900
4-Methylphenol *	<20.5	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<20.5	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<20.5	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<20.5	>0.200	4-Bromophenyl-phenylether *	<20.5	>0.100
Isophorone *	<20.5	>0.400	Hexachlorobenzene *	<20.5	>0.100
2-Nitrophenol *	<20.5	>0.100	Pentachlorophenol *	<20.5	>0.050
2,4-Dimethylphenol *	<20.5	>0.200	Phenanthrene *	<20.5	>0.700
bis(2-Chloroethoxy)methane *	<20.5	>0.1000	Anthracene *	<20.5	>0.700
2,4-Dichlorophenol *	<20.5	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<20.5	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<20.5	>0.700	Fluoranthene *	<20.5	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<20.5	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<20.5	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<20.5	>0.400	Benzo(a)anthracene *	<20.5	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<20.5	>0.700
2,4,6-Trichlorophenol *	<20.5	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<20.5	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<20.5	>0.800	Benzo(b)fluoranthene *	<20.5	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<20.5	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<20.5	>0.700
Acenaphthylene *	<20.5	>0.1000	Indeno(1,2,3-cd)pyrene *	<20.5	>0.500
2,6-Dinitrotoluene *	<20.5	>0.200	Dibenz(a,h)anthracene *	<20.5	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<20.5	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<20.5	>0.700			
Terphenyl-d14 *	<20.5	>0.500			
Phenol-d5 *	<20.5	>0.800			
2-Fluorophenol *	<20.5	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<20.5	>0.80			
1,2-Dichlorobenzene-d4 *	<20.5	>0.40			

All Compounds Average RRF for TCLP Compounds > QC Limit: yes

All Compounds Average RRF for TCLP Compounds > 0.05: yes Footnote:

All Compounds %RSD < QC Limit for TCLP Compounds: yes Footnote:

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY**
(Page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

Compound:
PPB

Hexachloroethane

2,4-Dinitrotoluene

20	$20598/61029 * 2.000 = 0.675$
50	$48442/56472 * 0.800 = 0.686$
80	$89591/76680 * 0.500 = 0.584$
120	$129281/81044 * 0.333 = 0.531$
160	$166864/85133 * 0.250 = 0.490$

$17118/144205 * 2.000 = 0.237$
$58188/128298 * 0.800 = 0.363$
$145445/181714 * 0.500 = 0.400$
$234070/191999 * 0.333 = 0.406$
$329895/206657 * 0.250 = 0.399$

AV. RRF = 0.5932 %RSD = 14.5765%

AV. RRF = 0.361 %RSD = 19.7678

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5970B

Tune File ID: B02038.D

Calibration File ID: B02039.D

Initial Calibration File ID: B02028.D

Associated Samples: TBLK8/5, TBLK8/8, SBLK02, SB-3-1, SB-2-1, SB-2-1MS, SB-2-1MSD

Acceptable: yes

Date: 08/18/97

Date: 08/15/97

Time Requirements Met: yes

Page: 186

Page: 167

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	33%	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit for TCLP Compounds: yes

All Compounds Average RRF > 0.05 for TCLP Compounds: yes Footnote:

All Compounds %D < QC Limit for TCLP Compounds: no

Footnote: 15

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: 1,4-Dichlorobenzene
PPB

2,4-Dinitrotoluene

50 134257/81077 * 0.800 = 1.325

73240/171417 * 0.800 = 0.342

PERCENT DIFFERENCE:

$$(1.475 - 1.325) / 1.475 * 100 = 10.169492$$

$$(0.361 - 0.342) / 0.361 * 100 = 5.263158$$

METHOD BLANK: SBLK02 (Page 214)

Compound

ppb

<CRDL

No Compounds were detected in this method blank.

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TCLP Pesticide Analyses*
Samples Received August 1st and 5th, 1997
Sample Delivery Group: IRS001

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	Qualifiers	Footnotes
			Validation Reported Conc. Decision		

Sample SB-2-1 (Lab. #: 9722223)

Pesticides & PCBs

Untilted

gamma-BHC (Lindane)	0.10 U	0.10 U	0.10 U
Heptachlor	0.10 U	0.10 U	0.10 U
Heptachlor Epoxide	0.10 U	0.10 U	0.10 U
Endrin	0.20 U	0.20 U	0.20 U
Methoxychlor	1.0 U	1.0 U	1.0 U
alpha-Chlordane	0.10 U	0.10 U	0.10 U
gamma-Chlordane	0.10 U	0.10 U	0.10 U
Toxaphene	10 U	10 U	10 U
Technical Chlordane	2.0 U	2.0 U	2.0 U

Sample SB-3-1 (Lab. #: 9721875)

Pesticides & PCBs

Untilted

gamma-BHC (Lindane)	0.10 U	0.10 U	0.10 U
Heptachlor	0.10 U	0.10 U	0.10 U
Heptachlor Epoxide	0.10 U	0.10 U	0.10 U
Endrin	0.20 U	0.20 U	0.20 U
Methoxychlor	1.0 U	1.0 U	1.0 U
alpha-Chlordane	0.10 U	0.10 U	0.10 U
gamma-Chlordane	0.10 U	0.10 U	0.10 U
Toxaphene	10 U	10 U	10 U
Technical Chlordane	2.0 U	2.0 U	2.0 U

Initial Calibration																																					
Sheet1																																					
INDAL																																					
Page: 142		Date: 8/5/97		Time: 1:32																																	
						RTX-35		RTX-5		RTX-35																											
						#1 Calc.		#2 Calc.				RT Window #1		RT Window #2																							
						Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From		To		OK		From		To		OK		CF 1		CF 2					
		RT1		RT2		Resp 1		Resp 2																													
alpha-BHC		8.13		10.74		21,397		32,523		2,139,700		0.0050		1.00		3,252,300		0.0050		1.00		8.08		8.18		10.69		10.79		2,139,690		3,252,329					
beta-BHC																						8.91		9.01		12.34		12.44		1,191,138		1,755,317					
delta-BHC																						9.84		9.94		13.58		13.68		1,863,598		2,387,854					
gamma-BHC (Lindane)		9.12		12.10		25,832		29,909		2,583,200		0.0050		1.00		2,990,900		0.0050		1.00		9.08		9.18		12.05		12.15		2,583,197		2,990,867					
Heptachlor		11.34		13.48		21,615		27,229		2,161,500		0.0050		1.00		2,722,900		0.0050		1.00		11.29		11.39		13.43		13.53		2,161,498		2,722,900					
Aldrin																						12.40		12.50		14.47		14.57		1,889,558		2,242,895					
Heptachlor Epoxide																						13.67		13.81		15.82		15.96		1,892,140		1,949,832					
Endosulfan I						0		0.0050		0.00		0		0.0050		0.00		14.66		14.80		16.74		16.88		16.74		16.88		1,636,318		1,764,498					
Dieldrin						0		0.0100		0.00		0		0.0100		0.00		15.27		15.41		17.49		17.63		17.49		17.63		1,671,760		1,816,551					
4,4'- DDE																		15.17		15.31		17.25		17.39		17.25		17.39		1,626,974		1,679,423					
Endrin						0		0.0100		0.00		0		0.0100		0.00		15.78		15.92		18.37		18.51		18.37		18.51		1,505,005		1,301,152					
Endosulfan II																		16.00		16.14		18.84		18.98		18.84		18.98		1,462,044		1,600,954					
4,4' - DDD						0		0.0100		0.00		0		0.0100		0.00		16.15		16.29		18.65		18.79		18.65		18.79		1,263,802		1,391,872					
Endosulfan Sulfate																		17.01		17.15		20.04		20.18		20.04		20.18		1,196,796		1,244,737					
4,4'-DDT						0		0.0100		0.00		0		0.0100		0.00		17.02		17.16		19.46		19.60		19.46		19.60		1,224,178		1,343,063					
Methoxychlor						0		0.0500		0.00		0		0.0500		0.00		18.40		18.65		21.55		21.69		21.55		21.69		725,369		595,077					
Endrin Ketone																		18.16		18.30		21.93		22.07		21.93		22.07		1,636,402		1,244,701					
Endrin Aldehyde																		16.44		16.58		19.61		19.75		19.61		19.75		1,302,052		1,094,899					
alpha-Chlordane																		14.72		14.86		16.69		16.83		16.69		16.83		1,905,341		1,908,905					
gamma-Chlordane																		14.35		14.49		16.30		16.44		16.30		16.44		2,031,193		2,026,488					
TCX		6.95		8.42				0.0050		####		0.0050		####		6.92		7.01		8.37		8.47		8.37		8.47		1,800,960		3,259,842							
DCB		22.79		25.86		0		0.0100		####		0		0.0100		0.00		22.69		22.89		25.76		25.96		25.76		25.96		1,628,577		1,162,302					
INDBL																																					
Page: 145		Date: 8/5/97		Time: 2:08																																	
						RTX-35		RTX-5		RTX-35																											
						#1 Calc.		#2 Calc.				RT Window #1		RT Window #2																							
		RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From		To		OK		From		To		OK		CF 1		CF 2	
alpha-BHC										0		0.0050		0.00		0		0.0050		0.00		8.08		8.18		10.69		10.79		2,139,690		3,252,329					
beta-BHC						0		0.0050		0.00		0		0.0050		0.00		8.91		9.01		12.34		12.44		12.34		12.44		1,191,138		1,755,317					
delta-BHC						0		0.0050		0.00		0		0.0050		0.00		9.84		9.94		13.58		13.68		13.58		13.68		1,863,598		2,387,854					
gamma-BHC (Lindane)																		9.08		9.18		12.05		12.15		12.05		12.15		2,583,197		2,990,867					
Heptachlor																		11.29		11.39		13.43		13.53		13.43		13.53		2,161,498		2,722,900					
Aldrin						0		0.0050		0.00		0		0.0050		0.00		12.40		12.50		14.47		14.57		14.47		14.57		1,889,558		2,242,895					
Heptachlor Epoxide						0		0.0050		0.00		0		0.0050		0.00		13.67		13.81		15.82		15.96		15.82		15.96		1,892,140		1,949,832					
Endosulfan I																		14.66		14.80		16.74		16.88		16.74		16.88		1,636,318		1,764,498					
Dieldrin																		15.27		15.41		17.49		17.63		17.49		17.63		1,671,760		1,816,551					
4,4'- DDE		15.24		17.32		32,539		66,588		1,626,950		0.0100		1.00		3,329,400		0.0100		1.98		15.17		15.31		17.25		17.39		1,626,974		1,679,423					
Endrin																		15.78		15.92		18.37		18.51		18.37		18.51		1,505,005		1,301,152					
Endosulfan II		16.07		18.91		29,241		32,019		1,462,050		0.0100		1.00		1,600,950		0.0100		1.00		16.00		16.14		18.84		18.98		1,462,044		1,600,954					
4,4' - DDD																		16.15		16.29		18.65		18.79		18.65		18.79		1,263,802		1,391,872					
Endosulfan Sulfate		17.08		20.11		23,936		24,895		1,196,800		0.0100		1.00		1,244,750		0.0100		1.00		17.01		17.15		20.04		20.18		1,196,796		1,244,737					
4,4'-DDT																		17.02		17.16		19.46		19.60		19.46		19.60		1,224,178		1,343,063					
Methoxychlor																		18.40		18.65		21.55		21.69		21.55		21.69		725,369		595,077					
Endrin Ketone						0		0.0100		0.00		0		0.0100		0.00		18.16		18.30		21.93		22.07		21.93		22.07		1,636,402		1,244,701					
Endrin Aldehyde						0		0.0100		0.00		0		0.0100		0.00		16.44		16.58		19.61		19.75		19.61		19.75		1,302,052		1,094,899					
alpha-Chlordane						0		0.0050		0.00		0		0.0050		0.00		14.72		14.86		16.69		16.83		16.69		16.83		1,905,341		1,908,905					
gamma-Chlordane						0		0.0050		0.00		0		0.0050		0.00		14.35		14.49		16.30		16.44		16.30		16.44		2,031,193		2,026,488					
TCMX		6.95		8.42		#VALUE!		0.0050		####		0		0.0050		0.00		6.92		7.01		8.37		8.47		8.37		8.47		1,800,960		3,259,842					
DCB		22.79		25.85		#VALUE!		0.0100		####		0		0.0100		0.00		22.69		22.89		25.76		25.96		25.76		25.96		1,628,577		1,162,302					

Initial Calibration																			
Sheet1																			
INDAM																			
Page: 147		Date: 8/5/97		Time: 2:43															
RTX-5		RTX-35		RTX-5		RTX-35		RTX-35		RTX-6		RTX-35							
RT1		RT2		Resp 1		Resp 2		#1 Calc.		#2 Calc.		RT Window #1		RT Window #2					
								Cal. Fac.		Conc.		R/C		From		To		OK	
alpha-BHC								0		0.0200		0.00		8.08		8.18		10.69	
beta-BHC														8.91		9.01		12.34	
delta-BHC														9.84		9.94		13.58	
gamma-BHC (Lindane)								0		0.0200		0.00		9.08		9.18		12.05	
Heptachlor								0		0.0200		0.00		11.29		11.39		13.43	
Aldrin														12.40		12.50		14.47	
Heptachlor Epoxide														13.67		13.81		15.82	
Endosulfan I								0		0.0200		0.00		14.66		14.80		16.74	
Dieldrin								0		0.0400		0.00		15.27		15.41		17.49	
4,4'- DDE														15.17		15.31		17.25	
Endrin								0		0.0400		0.00		15.78		15.92		18.37	
Endosulfan II														16.00		16.14		18.84	
4,4' - DDD								0		0.0400		0.00		16.15		16.29		18.65	
Endosulfan Sulfate														17.01		17.15		20.04	
4,4'-DDT		17.09		19.53		94,345		105,014		1,179,313		0.0400		1.00		1,312,675		0.0400	
Methoxychlor		18.47		21.62		242,852		210,981		607,130		0.2000		1.00		527,453		0.2000	
Endrin Ketone														18.16		18.30		21.93	
Endrin Aldehyde														16.44		16.58		19.61	
alpha-Chlordane														14.72		14.86		16.69	
gamma-Chlordane														14.35		14.49		16.30	
TCX										0		0.0200		0.00		0		0.0200	
DCB										0		0.0400		0.00		0		0.0400	
INDBM																			
Page: 149		Date: 8/5/97		Time: 3:19															
RTX-5		RTX-35		RTX-5		RTX-35		RTX-35		RTX-5		RTX-35							
RT1		RT2		Resp 1		Resp 2		#1 Calc.		#2 Calc.		RT Window #1		RT Window #2					
								Cal. Fac.		Conc.		R/C		From		To		OK	
alpha-BHC														8.08		8.18		10.69	
beta-BHC								0		0.0200		0.00		8.91		9.01		12.34	
delta-BHC								0		0.0200		0.00		9.84		9.94		13.58	
gamma-BHC (Lindane)														9.08		9.18		12.05	
Heptachlor														11.29		11.39		13.43	
Aldrin								0		0.0200		0.00		12.40		12.50		14.47	
Heptachlor Epoxide								0		0.0200		0.00		13.67		13.81		15.82	
Endosulfan I														14.66		14.80		16.74	
Dieldrin														15.27		15.41		17.49	
4,4'- DDE								0		0.0400		0.00		15.17		15.31		17.25	
Endrin														15.78		15.92		18.37	
Endosulfan II								0		0.0400		0.00		16.00		16.14		18.84	
4,4' - DDD														16.15		16.29		18.65	
Endosulfan Sulfate								0		0.0400		0.00		17.01		17.15		20.04	
4,4'-DDT														17.02		17.16		19.46	
Methoxychlor														18.40		18.65		21.55	
Endrin Ketone		18.23		22.00		135,906		90,389		1,698,825		0.0400		1.00		1,129,863		0.0400	
Endrin Aldehyde		16.52		19.68		105,527		80,011		1,319,088		0.0400		1.00		1,000,138		0.0400	
alpha-Chlordane		14.79		17.76		80,009		69,700		2,000,225		0.0200		1.00		1,742,500		0.0200	
gamma-Chlordane										0		0.0200		0.00		0		0.0200	
TCMX										0		0.0200		0.00		0		0.0200	
DCB										0		0.0400		0.00		0		0.0400	

[illegible]

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Form VII	Page:	88																				
Raw Data	Page:	254																				
					Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2							
			RTX-6	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK		
																				CF 1	CF 2	
alpha-BHC		8.16	10.77	94,101	116,618	0.0383	0.0400	4.35	OK	0.037	0.0400	7.97	OK	8.08	8.18	10.69	10.79				2,459,582	3,167,961
beta-BHC														8.91	9.01	12.34	12.44				1,302,706	1,594,731
delta-BHC														9.84	9.94	13.58	13.68				2,283,674	2,209,543
gamma-BHC (Lindane)		9.16	12.13	88,808	106,006	0.0373	0.0400	6.86	OK	0.037	0.0400	7.47	OK	9.08	9.18	12.05	12.15				2,383,692	2,864,210
Heptachlor		11.38	13.51	87,777	100,651	0.0404	0.0400	-1.06	OK	0.039	0.0400	1.67	OK	11.29	11.39	13.43	13.53				2,171,450	2,558,965
Aldrin														12.40	12.50	14.47	14.57				2,202,052	2,130,791
Heptachlor Epoxide														13.67	13.81	15.82	15.96				2,063,140	1,812,860
Endosulfan I		14.75	16.83	67,049	66,301	0.0393	0.0400	1.73	OK	0.037	0.0400	6.37	OK	14.66	14.80	16.74	16.88				1,705,698	1,770,229
Dieldrin		15.36	17.59	140,114	136,382	0.0792	0.0800	1.03	OK	0.075	0.0800	6.64	OK	15.27	15.41	17.49	17.63				1,769,697	1,826,095
4,4'- DDE														15.17	15.31	17.25	17.39				1,854,870	1,600,806
Endrin		15.88	18.46	121,601	107,003	0.0803	0.0800	-0.40	OK	0.078	0.0800	2.14	OK	15.78	15.92	18.37	18.51				1,513,898	1,366,767
Endosulfan II														16.00	16.14	18.84	18.98				1,610,042	1,310,455
4,4' - DDD		16.25	18.74	102,883	104,321	0.0787	0.0800	1.66	OK	0.075	0.0800	5.91	OK	16.15	16.29	18.65	18.79				1,307,810	1,385,922
Endosulfan Sulfate														17.01	17.15	20.04	20.18				1,199,098	1,165,422
4,4'-DDT		17.11	19.55	95,032	95,993	0.0806	0.0800	-0.73	OK	0.073	0.0800	8.59	OK	17.02	17.16	19.46	19.60				1,179,318	1,312,674
Methoxychlor		18.49	21.65	241,296	196,389	0.3974	0.4000	0.64	OK	0.372	0.4000	6.92	OK	18.40	18.65	21.55	21.69				607,128	527,453
Endrin Ketone														18.16	18.30	21.93	22.07				1,698,824	1,129,862
Endrin Aldehyde														16.44	16.58	19.61	19.75				1,319,085	1,000,135
alpha-Chlordane														14.72	14.86	16.69	16.83				2,000,231	1,742,511
gamma-Chlordane														14.35	14.49	16.30	16.44				2,199,991	1,848,719
TCX		6.98	8.45	67,410	112,727	0.0378	0.0400	5.51	OK	0.036	0.0400	9.53	OK	6.92	7.01	8.37	8.47				1,783,551	3,115,069
DCB		22.82	25.9	113,895	85,611	0.0784	0.0800	1.99	OK	0.076	0.0800	5.09	OK	22.69	22.89	25.76	25.96				1,452,622	1,127,561
INDBM05 / INDBWM03																						
Form VII	Page:	84																				
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Form VII	Page:	88																				
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					Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2							
			RTX-6	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2
alpha-BHC															8.08	8.18	10.69	10.79			2,459,582	3,167,961
beta-BHC		8.99	12.42	46,232	65,727	0.0355	0.0400	11.28	OK	0.041	0.0400	-3.04	OK	8.91	9.01	12.34	12.44				1,302,706	1,594,731
delta-BHC		9.92	13.66	79,484	90,031	0.0348	0.0400	12.99	OK	0.041	0.0400	-1.87	OK	9.84	9.94	13.58	13.68				2,283,674	2,209,543
gamma-BHC (Lindane)														9.08	9.18	12.05	12.15				2,383,692	2,864,210
Heptachlor														11.29	11.39	13.43	13.53				2,171,450	2,558,965
Aldrin		12.49	14.5	79,772	88,084	0.0362	0.0400	9.43	OK	0.041	0.0400	-3.35	OK	12.40	12.50	14.47	14.57				2,202,052	2,130,791
Heptachlor Epoxide		13.77	15.91	75,263	76,171	0.0365	0.0400	8.80	OK	0.042	0.0400	-5.04	OK	13.67	13.81	15.82	15.96				2,063,140	1,812,860
Endosulfan I														14.66	14.80	16.74	16.88				1,705,698	1,770,229
Dieldrin														15.27	15.41	17.49	17.63				1,769,697	1,826,095
4,4'- DDE		15.27	17.35	134,347	134,672	0.0724	0.0800	9.46	OK	0.084	0.0800	-5.16	OK	15.17	15.31	17.25	17.39				1,854,870	1,600,806
Endrin														15.78	15.92	18.37	18.51				1,513,898	1,366,767
Endosulfan II		16.1	18.94	117,709	108,532	0.0731	0.0800	8.61	OK	0.083	0.0800	-3.53	OK	16.00	16.14	18.84	18.98				1,610,042	1,310,455
4,4' - DDD														16.15	16.29	18.65	18.79				1,307,810	1,385,922
Endosulfan Sulfate		17.1	20.14	95,611	96,175	0.0797	0.0800	0.33	OK	0.083	0.0800	-3.15	OK	17.01	17.15	20.04	20.18				1,199,098	1,165,422
4,4'-DDT														17.02	17.16	19.46	19.60				1,179,318	1,312,674
Methoxychlor														18.40	18.65	21.55	21.69				607,128	527,453
Endrin Ketone		18.26	22.03	125,761	97,392	0.0740	0.0800	7.46	OK	0.086	0.0800	-7.75	OK	18.16	18.30	21.93	22.07				1,698,824	1,129,862
Endrin Aldehyde		16.54	19.71	95,293	64,815	0.0722	0.0800	9.70	OK	0.065	0.0800	18.99	OK	16.44	16.58	19.61	19.75				1,319,085	1,000,135
alpha-Chlordane		14.81	16.78	73,013	73,445	0.0365	0.0400	8.74	OK	0.042	0.0400	-5.37	OK	14.72	14.86	16.69	16.83				2,000,231	1,742,511
gamma-Chlordane		14.45	16.4	80,045	77,800	0.0364	0.0400	9.04	OK	0.042	0.0400	-5.21	OK	14.35	14.49	16.30	16.44				2,199,991	1,848,719
TCX		6.98	8.45	65,837	112,295	0.0369	0.0400	7.72	OK	0.036	0.0400	9.88	OK	6.92	7.01	8.37	8.47				1,783,551	3,115,069
DCB		22.82	25.9	112,874	84,142	0.0777	0.0800	2.87	OK	0.075	0.0800	6.72	OK	22.69	22.89	25.76	25.96				1,452,622	1,127,561

Initial Calibration																			
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								RTX-35				DB1701		RTX-35					
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								Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C	

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Sample MSB											
Page: 914				Date:		Time:					
% Solids = 0											
	Calc.	Calc.		RT Window #1				RT Window #2			
	Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2
alpha-BHC	0.0000	0.000		9.24	9.34			10.36	10.46		
beta-BHC	0.0000	0.000		13.46	13.56			11.74	11.84		
delta-BHC	0.0000	0.000		14.61	14.71			12.74	12.84		
gamma-BHC (Lindane)	11.0360	12.492	-12.38	10.43	10.53	10.47	2,766,187	11.48	11.58	11.54	2,106,190
Heptachlor	12.9912	13.540	-4.1	11.10	11.20	11.15	2,935,587	12.58	12.68	12.64	2,146,397
Aldrin	12.6567	13.431	-6.7	12.12	12.22	12.17	2,862,470	13.48	13.58	13.54	1,969,565
Heptachlor Epoxide	0.0000	0.149		15.31	15.45			14.98	15.12	15.13	22,176
Endosulfan I	0.0000	0.000		16.79	16.93			15.94	16.08		
Dieldrin	27.4964	29.121	-5.7	19.24	19.38	19.3	6,067,803	16.73	16.87	16.81	3,941,831
4,4'- DDE	1.3577	0.940	36.4	18.38	18.52	18.44	278,890	16.56	16.70	16.64	125,188
Endrin	27.6888	30.001		20.47	20.61	20.54	4,226,775	17.61	17.75	17.69	2,973,276
Endosulfan II	0.3906	0.372	4.8	23.20	23.34	23.23	66,951	18.09	18.23	18.15	44,585
4,4'- DDD	0.0000	0.000		23.17	23.31			17.99	18.13		
Endosulfan Sulfate	0.0000	0.000		26.38	26.52			19.29	19.43		
4,4'-DDT	26.6348	25.965	-1.3	23.88	24.02	23.93	3,459,867	18.78	18.92	18.86	2,887,979
Methoxychlor	0.0612	1.150	-179.8	26.57	26.71	26.62	2,776	20.84	20.98	20.94	53,398
Endrin Ketone	4.0069	0.636	152.8	27.78	27.92	27.82	474,742	21.05	21.19	21.12	66,391
Endrin Aldehyde	0.0000	0.000		25.08	25.22			18.88	19.02		
alpha-Chlordane	0.0000	0.000		17.60	17.74			15.91	16.05		
gamma-Chlordane	0.0000	0.353		17.26	17.40			15.50	15.64	15.55	55,743
TCX	66.1	72.5		7.04	7.14	7.1	1,765,795	8.32	8.42	8.37	1,378,608
DCB	94.3	102.8		30.71	30.91	30.77	1,318,897	24.50	24.70	24.61	1,790,308
S-4(0-2") MS											
Page: 914				Date:		Time:					
% Moisture = 38											
	Calc.	Calc.		RT Window #1				RT Window #2			
	Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2
alpha-BHC	0.0000	0.000		9.24	9.34			10.36	10.46		
beta-BHC	0.0000	0.000		13.46	13.56			11.74	11.84		
delta-BHC	0.0000	1.041		14.61	14.71			12.74	12.84	12.77	160,723
gamma-BHC (Lindane)	18.6451	20.799	-10.92	10.43	10.53	10.46	2,897,794	11.48	11.58	11.54	2,174,222
Heptachlor	24.5362	21.684	12.3	11.10	11.20	11.13	3,437,509	12.58	12.68	12.63	2,131,253
Aldrin	19.1283	20.136	-5.1	12.12	12.22	12.15	2,703,534	13.48	13.58	13.54	1,830,845
Heptachlor Epoxide	0.6019	2.469	-132.4	15.31	15.45	15.36	73,937	14.98	15.12	15.02	227,224
Endosulfan I				16.79	16.93			15.94	16.08	15.98	155,930
Dieldrin	43.1767	39.499	8.9	19.24	19.38	19.28	5,907,619	16.73	16.87	16.81	3,314,875
4,4'- DDE	9.9915	5.739	54.1	18.38	18.52	18.41	1,272,473	16.56	16.70	16.64	473,900
Endrin	52.7264	61.766	1.8	20.47	20.61	20.52	4,990,289	17.61	17.75	17.69	3,180,756
Endosulfan II	1.7232	0.408	123.4	23.20	23.34	23.20	183,124	18.09	18.23	18.17	30,312
4,4'- DDD	1.9025	1.397	30.6	23.17	23.31	23.20	183,124	17.99	18.13	18.04	94,635
Endosulfan Sulfate	0.1940	0.762	-118.8	26.38	26.52	26.42	14,925	19.29	19.43	19.39	52,936
4,4'-DDT	42.6282	44.458	-4.4	23.88	24.02	23.92	3,558,756	18.78	18.92	18.86	3,065,778
Methoxychlor	2.5891	1.929	29.2	26.57	26.71	26.60	72,773	20.84	20.98	20.90	55,545
Endrin Ketone	3.6685	0.266	173.0	27.78	27.92	27.81	269,482	21.05	21.19	21.10	20,440
Endrin Aldehyde				25.08	25.22			18.88	19.02		
alpha-Chlordane	2.8103	1.659	51.5	17.60	17.74	17.76	417,856	15.91	16.05	15.98	155,930
gamma-Chlordane	0.5530	0.468	16.7	17.26	17.40	17.29	84,318	15.50	15.64	15.57	45,741
TCX	68.3	88.0		7.04	7.14	7.08	1,825,627	8.32	8.42	8.37	1,673,491
DCB	79.4	83.1		30.71	30.91	30.76	1,110,151	24.50	24.70	24.61	1,448,594
Page 1											

Sample SS-S-1(0-2")												
Page: 619			Date:			Time:						
% Moisture = 13												
Calc.		Calc.	RT Window #1				RT Window #2					
Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2		
alpha-BHC	0.0000	0.000	9.24	9.34			10.36	10.46				
beta-BHC	0.4048	0.000	13.46	13.56	13.48	56,854	11.74	11.84				
delta-BHC	0.0000	5.187	14.61	14.71			12.74	12.84	12.75	801,109		
gamma-BHC (Lindane)	0.0000	0.000 #DIV/0!	10.43	10.53			11.48	11.58				
Heptachlor	0.0000	0.000 #DIV/0!	11.10	11.20			12.58	12.68				
Aldrin	2.6763	4.973 -63.5	12.12	12.22	12.15	102,150	13.48	13.58	13.58	126,886		
Heptachlor Epoxide	3.8709	11.588 -99.8	15.31	15.45	15.38	160,029	14.98	15.12	15.03	299,257		
Endosulfan I	3.3528	24.681 -152.2	16.79	16.93	16.85	131,435	15.94	16.08	15.99	560,709		
Dieldrin	27.0014	26.908 0.3	19.24	19.38	19.29	1,036,827	16.73	16.87	16.80	633,760		
4,4'- DDE	19.0604	16.996 11.5	18.38	18.52	1842	681,251	16.56	16.70	16.63	393,868		
Endrin	10.1878	12.872 -23.3	20.47	20.61	20.52	270,604	17.61	17.75	17.68	221,967		
Endosulfan II	24.3584	12.708 62.9 X	23.20	23.34	23.22	726,487	18.09	18.23	18.17	264,922		
4,4' - DDD	26.8936	13.373 67.2	23.17	23.31	23.22	726,487	17.99	18.13	18.03	254,163		
Endosulfan Sulfate	#VALUE!	27.721 #####	26.38	26.52			19.29	19.43	19.37	540,716		
4,4'-DDT	77.1078	94.271 -20.0	23.88	24.02	23.93	1,810,827	18.78	18.92	18.86	1,824,426		
Methoxychlor	8.2260	5.650 37.1	26.57	26.71	26.58	64,889	20.84	20.98	20.90	45,661		
Endrin Ketone	5.5266	4.271 25.6	27.78	27.92	27.80	113,934	21.05	21.19	21.12	92,130		
Endrin Aldehyde	0.0000	0.000	25.08	25.22			18.88	19.02				
alpha-Chlordane	29.1854	21.258 31.4	17.60	17.74	17.74	1,217,838	15.91	16.05	15.99	560,709		
gamma-Chlordane	12.2235	18.586 -41.3	17.26	17.40	17.31	523,064	15.50	15.64	15.57	509,978		
TCX	137	159	7.04	7.14	7.09	730,325	8.32	8.42	8.37	603,645		
DCB	119	150	30.71	30.91	30.76	331,821	24.50	24.70	24.61	523,023		

Sample SS-S-2 (0-2")											
Page: 914			Date:			Time:					
% Moisture = 38											
Calc.		Calc.		RT Window #1			RT Window #2				
Amt. #1	Amt. #2	RPD		From	To	RT1	Resp 1	From	To	RT2	Resp 2
alpha-BHC	0.0573	0.000		9.24	9.34	9.33	14,624	10.36	10.46		
beta-BHC	0.4816	0.000		13.46	13.56	13.46	67,634	11.74	11.84		
delta-BHC	0.0000	1.094		14.61	14.71			12.74	12.84	12.77	168,936
gamma-BHC (Lindane)	0.2919	0.000	200.00	10.43	10.53	10.46	59,276	11.48	11.58		
Heptachlor	0.0000	0.000	#DIV/0!	11.10	11.20			12.58	12.68		
Aldrin	0.1452	0.888	-143.8	12.12	12.22	12.13	26,818	13.48	13.58	13.58	105,474
Heptachlor Epoxide	0.7179	4.842	-148.3	15.31	15.45	15.36	138,169	14.98	15.12	15.03	582,095
Endosulfan I	0.0000	1.520		16.79	16.93			15.94	16.08	16.99	160,701
Dieldrin	2.0467	0.923	75.7	19.24	19.38	19.28	365,863	16.73	16.87	16.81	101,174
4,4'- DDE	3.8821	1.963	65.7	18.38	18.52	18.41	645,917	16.56	16.70	16.63	211,724
Endrin	1.4979	0.991	40.7	20.47	20.61	20.51	185,216	17.61	17.75	17.69	79,540
Endosulfan II	1.1711	0.343	109.4 X	23.20	23.34	23.20	162,698	18.09	18.23	18.16	33,271
4,4' - DDD	1.2930	0.861	40.1	23.17	23.31	23.20	162,698	17.99	18.13	18.03	76,174
Endosulfan Sulfate	0.1157	0.858	-152.5	26.38	26.52	26.42	11,630	19.29	19.43	19.39	77,909
4,4'-DDT	9.6538	8.193	16.4	23.88	24.02	23.92	1,055,388	18.78	18.92	18.86	738,166
Methoxychlor	0.3463	0.634	-58.7	26.57	26.71	26.59	12,717	20.84	20.98	20.90	23,864
Endrin Ketone	0.6701	0.363	59.6	27.78	27.92	27.81	64,314	21.05	21.19	21.11	36,414
Endrin Aldehyde	0.0000	0.000		25.08	25.22			18.88	19.02		
alpha-Chlordane	2.5028	1.309	62.6	17.60	17.74	17.75	486,163	15.91	16.05	15.99	160,701
gamma-Chlordane	0.5979	0.654	7.6	17.26	17.40	17.3	119,108	15.50	15.64	15.57	70,796
TCX	80.9	94.7		7.04	7.14	7.09	2,162,271	8.32	8.42	8.37	1,800,279
DCB	100.1	91.7		30.71	30.91	30.76	1,400,008	24.50	24.70	24.61	1,597,645

Sample SS-S-3 (0-2")											
Page: 636				Date:		Time:					
% Moisture = 25											
	Calc.	Calc.		RT Window #1				RT Window #2			
	Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2
alpha-BHC	0.0000	0.000		9.24	9.34			10.36	10.46		
beta-BHC	0.0000	0.000		13.46	13.56			11.74	11.84		
delta-BHC	0.0000	1.065		14.61	14.71			12.74	12.84	12.78	123,342
gamma-BHC (Lindane)	0.3247	0.768	-81.17	10.43	10.53	10.46	61,040	11.48	11.58	11.53	97,152
Heptachlor	0.0000	0.000	#DIV/0!	11.10	11.20			12.58	12.68		
Aldrin	0.0000	2.176		12.12	12.22			13.48	13.58	13.58	239,357
Heptachlor Epoxide	1.3696	4.326	-103.8	15.31	15.45	15.36	244,056	14.98	15.12	15.03	481,531
Endosulfan I	0.0000	6.878		16.79	16.93			15.94	16.08	15.99	673,484
Dieldrin	1.8139	1.745	3.8	19.24	19.38	19.27	300,232	16.73	16.87	16.81	177,201
4,4'- DDE	11.4074	7.984	35.3	18.38	18.52	18.41	1,757,418	16.56	16.70	16.63	797,475
Endrin	1.9844	1.084	58.7	20.47	20.61	20.51	227,199	17.61	17.75	17.69	80,571
Endosulfan II	0.0000	1.042	-200.0	23.20	23.34			18.09	18.23	18.13	93,598
4,4' - DDD	7.8573	2.548	102.0	23.17	23.31	23.19	914,880	17.99	18.13	18.03	208,735
Endosulfan Sulfate	0.9607	1.806	-61.1	26.38	26.52	26.42	89,399	19.29	19.43	19.38	151,843
4,4'-DDT	21.5391	20.078	7.0	23.88	24.02	23.92	2,180,312	18.78	18.92	18.86	1,674,846
Methoxychlor	1.4905	3.644	-83.9	26.57	26.71	26.59	50,680	20.84	20.98	20.90	126,931
Endrin Ketone	3.2078	0.830	117.8	27.78	27.92	27.82	285,047	21.05	21.19	21.09	77,190
Endrin Aldehyde	0.0000	0.000		25.08	25.22			18.88	19.02		
alpha-Chlordane	12.4476	6.924	71.0	17.60	17.74	17.74	2,238,836	15.91	16.05	15.99	673,484
gamma-Chlordane	3.5063	4.447	-23.7	17.26	17.40	17.30	646,718	15.50	15.64	15.57	525,918
TCX	70.7	98.4		7.04	7.14	7.09	1,889,836	8.32	8.42	8.37	1,870,075
DCB	89.1	87.1		30.71	30.91	30.76	1,246,182	24.50	24.70	24.61	1,518,258
Sample SS-S-4 (0-2")											
Page: 646				Date:		Time:					
% Moisture = 38											
	Calc.	Calc.		RT Window #1				RT Window #2			
	Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2
alpha-BHC	0.0000	0.000		9.24	9.34			10.36	10.46		
beta-BHC	0.0000	0.000		13.46	13.56			11.74	11.84		
delta-BHC	0.0000	1.203		14.61	14.71			12.74	12.84	12.78	115,194
gamma-BHC (Lindane)	0.4761	0.155	101.69	10.43	10.53	10.46	74,002	11.48	11.58	11.54	16,221
Heptachlor	0.0000	0.000	#DIV/0!	11.10	11.20			12.58	12.68		
Aldrin	0.0000	0.000		12.12	12.22			13.48	13.58		
Heptachlor Epoxide	0.4128	2.464	-142.6	15.31	15.45	15.37	60,812	14.98	15.12	15.02	226,754
Endosulfan I	0.0000	2.275		16.79	16.93			15.94	16.08	15.98	184,163
Dieldrin	0.0000	0.000	#DIV/0!	19.24	19.38			16.73	16.87		
4,4'- DDE	6.9964	4.326	47.2	18.38	18.52	18.42	891,035	16.56	16.70	16.63	357,240
Endrin	2.0276	1.205	50.9	20.47	20.61	20.5	191,902	17.61	17.75	17.72	74,016
Endosulfan II	1.2946	0.089	174.4	23.20	23.34	23.24	137,580	18.09	18.23	18.17	6,577
4,4' - DDD	4.1293	0.831	52.9	23.17	23.31	23.24	137,580	17.99	18.13	18.04	56,293
Endosulfan Sulfate	0.1399	0.682	-131.9	26.38	26.52	26.42	10,761	19.29	19.43	19.39	47,428
4,4'-DDT	5.9571	6.051	16.5	23.88	24.02	23.93	498,488	18.78	18.92	18.87	348,342
Methoxychlor	1.3765	1.235	10.9	26.57	26.71	26.60	38,691	20.84	20.98	20.90	35,551
Endrin Ketone	0.9006	0.101	159.7	27.78	27.92	27.82	66,159	21.05	21.19	21.10	7,759
Endrin Aldehyde	0.0000	0.000		25.08	25.22			18.88	19.02		
alpha-Chlordane	2.3914	1.960	19.9	17.60	17.74	17.77	355,570	15.91	16.05	15.98	184,163
gamma-Chlordane	0.5763	0.609	12.3	17.26	17.40	17.31	87,873	15.50	15.64	15.57	49,792
TCX	74.0	92.3		7.04	7.14	7.09	1,978,965	8.32	8.42	8.37	1,755,173
DCB	87.0	80.8		30.71	30.91	30.77	1,217,398	24.50	24.70	24.61	1,407,317

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Sample SS-S-6 (0-2")											
Page: 646			Date:			Time:					
% Moisture = 15											
Calc.		Calc.		RT Window #1				RT Window #2			
Amt. #1	Amt. #2	RPD		From	To	RT1	Resp 1	From	To	RT2	Resp 2
alpha-BHC	0.0000	0.000		9.24	9.34			10.36	10.46		
beta-BHC	0.9907	0.000		13.46	13.56	13.46	23,655	11.74	11.84		
delta-BHC	0.0000	0.000		14.61	14.71			12.74	12.84		
gamma-BHC (Lindane)	1.0715	0.000	200.00	10.43	10.53	10.46	45,661	11.48	11.58		
Heptachlor	0.0000	0.000	#DIV/0!	11.10	11.20			12.58	12.68		
Aldrin	1.0615	1.286		12.12	12.22	12.14	41,138	13.48	13.58	13.56	32,072
Heptachlor Epoxide	1.9615	4.034	-69.1	15.31	15.45	15.36	79,226	14.98	15.12	15.03	101,780
Endosulfan I	0.0000	0.000		16.79	16.93			15.94	16.08		
Dieldrin	13.8742	7.639	58.0	19.24	19.38	19.28	520,509	16.73	16.87	16.81	175,775
4,4'- DDE	65.9950	62.283	23.2	18.38	18.52	18.41	2,304,554	16.56	16.70	16.64	1,183,788
Endrin	9.7701	0.000	200.0	20.47	20.61	20.47	253,545	17.61	17.75		
Endosulfan II	24.7377	0.000	200.0	23.20	23.34	23.20	720,839	18.09	18.23		
4,4' - DDD	27.3124	22.162	20.8	23.17	23.31	23.20	720,839	17.99	18.13	18.05	411,511
Endosulfan Sulfate	0.5511	4.192	-153.5	26.38	26.52	26.43	11,624	19.29	19.43	19.7	79,888
4,4'-DDT	108.0200	96.280	11.5	23.88	24.02	23.92	2,478,463	18.78	18.92	18.86	1,820,476
Methoxychlor	2.6420	1.720	42.3	26.57	26.71	26.60	20,362	20.84	20.98	20.90	13,581
Endrin Ketone	0.0000	#VALUE!	#####	27.78	27.92			21.05	21.19		
Endrin Aldehyde	0.0000	0.000		25.08	25.22			18.88	19.02		
alpha-Chlordane	18.3510	8.274	75.7	17.60	17.74	17.74	748,142	15.91	16.05	15.99	213,219
gamma-Chlordane	7.3260	6.342	14.4	17.26	17.40	17.30	306,284	15.50	15.64	15.58	170,026
TCX	97	112		7.04	7.14	7.09	516,155	8.32	8.42	8.37	423,912
DCB	121	109		30.71	30.91	30.77	338,292	24.50	24.70	24.61	380,416

Sample SS-S-7 (0-2")													
	Page: 646			Date:		Time:							
	% Moisture = 21												
	Calc.	Calc.		RT Window #1				RT Window #2					
	Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2		
alpha-BHC	0.0000	0.000		9.24	9.34			10.36	10.46				
beta-BHC	0.0000	0.000		13.46	13.56			11.74	11.84				
della-BHC	0.0000	0.706		14.61	14.71			12.74	12.84	12.78	17,240		
gamma-BHC (Lindane)	0.0000	0.000	#DIV/0!	10.43	10.53			11.48	11.58				
Heptachlor	0.0000	1.894	-200.0	11.10	11.20			12.58	12.68	12.58	47,432		
Aldrin	0.0000	0.000		12.12	12.22			13.48	13.58				
Heptachlor Epoxide	7.3687	9.336	-23.6	15.31	15.45	15.37	276,619	14.98	15.12	15.06	218,929		
Endosulfan I	0.0000	29.757		16.79	16.93			15.94	16.08	15.99	613,873		
Dieldrin	7.1164	7.241	-1.7	19.24	19.38	19.28	248,136	16.73	16.87	16.81	154,866		
4,4'- DDE	21.5134	16.834	24.4	18.38	18.52	18.41	698,222	16.56	16.70	16.64	354,241		
Endrin	10.2460	4.411	79.6	20.47	20.61	20.51	247,125	17.61	17.75	17.74	69,064		
Endosulfan II	0.0000	0.000	#DIV/0!	23.20	23.34			18.09	18.23				
4,4' - DDD	27.6347	19.030	36.9	23.17	23.31	23.19	677,862	17.99	18.13	18.04	328,423		
Endosulfan Sulfate	0.3982	4.053	-164.2	26.38	26.52	26.60	7,806	19.29	19.43	19.41	71,786		
4,4'- DDT	82.1437	91.098	-10.3	23.88	24.02	23.92	1,751,703	18.78	18.92	18.87	1,600,910		
Methoxychlor	0.0000	0.000	#DIV/0!	26.57	26.71			20.84	20.98				
Endrin Ketone	0.0000	0.000	#DIV/0!	27.78	27.92			21.05	21.19				
Endrin Aldehyde	0.0000	0.000		25.08	25.22			18.88	19.02				
alpha-Chlordane	53.1196	25.631	69.8	17.60	17.74	17.74	2,012,738	15.91	16.05	15.99	613,873		
gamma-Chlordane	17.4818	25.392	-36.9	17.26	17.40	17.30	679,286	15.50	15.64	15.58	632,659		
TCX	99	94		7.04	7.14	7.09	530,218	8.32	8.42	8.37	359,189		
DCB	118	109		30.71	30.91	30.76	328,889	24.50	24.70	24.61	380,009		

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil TAL Inorganic and Cyanide Analyses
Samples Received: February 27th & 28th, 1997
Sample Delivery Group: A0437
Laboratory Reference Numbers:

SS-S-1(0-2")	970437A-01
SS-S-2(0-2")	970437A-02
SS-S-3(0-2")	970437A-03
SS-S-4(0-2")	970437A-04
SS-S-4(0-2")MS	970437A-04MS
SS-S-4(0-2")MD	970437A-04MD
SS-S-5(0-2")	970437A-05
SS-S-6(0-2")	970437A-06
SS-S-7(0-2")	970437A-07

Soil samples were received for TAL metals analyses by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
- CRDL Standards
- * - ICP Interference Check Sample
- * - Laboratory Control Sample
- * - Serial Dilutions
- * - Laboratory Blanks
- Field Blanks
- * - Preparation Blanks
- Matrix Spike
- * - Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
- * - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

Sample SS-S-4(0-2") (Lab. #: 970437A-04) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte list. All recoveries were within the acceptable limits (75% - 125%) with the one exception of cadmium (74%). Cadmium was either not detected in the samples or was present in only very low concentrations. It is possible that low concentrations of cadmium may have been overlooked and those reported may have been underestimated.

No other problems were found which would affect the end use of the data.


Nancy J. Potak
October 17, 1997

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

The recoveries of all CRDL standards in the first set were within the 80% to 120% quality assurance limits with the following exceptions:

Analyte	Initial % Recovery	Final % Recovery
Aluminum	3%	3%
Iron	3%	6%

All of the aluminum and iron concentrations in these samples were much too high to be affected by the low CRDL standard recoveries. The data were not required to be qualified for these low recoveries. No problems were found with the other quality assurance data for these two analytes. The analyses of aluminum and iron CRDL standards are not technically required for the NYS DEC ASP program.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

All of the traditional furnace analytes were also included in solution AB.

Matrix Spike Recovery

Sample SS-S-4(0-2") (Lab. #: 970437A-04) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte list. All recoveries were within the acceptable limits (75% - 125%) with the one exception of cadmium (74%). All of

the cadmium data were flagged with the "J" qualifier and footnoted with #35 in the data validation summary table. The post digestion recovery of this analyte was 101%.

Cadmium was either not detected in the samples or was present in only very low concentrations. It is possible that low concentrations of cadmium may have been overlooked and those reported may have been underestimated.

Duplicate Analysis

Sample SS-S-4(0-2") (Lab. #: 970437A-04) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCL analyte list. All recoveries which could be calculated were within the acceptable limits

Laboratory Control Sample

No problems were detected with the recoveries of the soil LCS standard.

Serial Dilutions

Sample SS-S-4(0-2") (Lab. #: 970437A-04) of this sample delivery group was also used for the serial dilution. All of the percent differences which could be calculated were within the required quality assurance limits.

Instrument Detection Limit

No problems with the instrument detection limits were found.

ICP Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

No problems were found with any of the reported sample data.

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TAL Inorganic Analyses

Samples Received February 27th & 28th, 1997

Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-1 (0-2") (Lab. #: 970437-01)					
% Solids = 86.6					
Aluminum	2.600 U	4,990.00	4,994.31		
Antimony	0.800 U	0.84 U	0.84 U		
Arsenic	0.400 U	7.80	7.84		
Barium	0.200 U	53.00	52.95		
Beryllium	0.200 U	0.23 B	0.23 B		
Cadmium	0.200 U	0.21 UN	0.21 UN	J qualify	35
Calcium	1.600 U	6,600.00	6,605.06		
Chromium	0.200 U	12.90	12.90		
Cobalt	0.200 U	3.20 B	3.18 B		
Copper	0.200 U	25.70	25.74		
Iron	2.598 B	8,840.00	8,840.55		
Lead	0.400 U	61.80	61.80		
Magnesium	1.278 B	2,350.00	2,348.74		
Manganese	0.200 U	645.00	645.28		
Mercury	0.100 U	0.310	0.309		
Nickel	0.200 U	8.20 B	8.22 B		
Potassium	4.063 B	423.00 B	422.92 B		
Selenium	0.400 U	0.99 B	#VALUE! B		
Silver	0.200 U	0.42 B	0.42 B		
Sodium	1.589 B	137.00 B	137.93 B		
Thallium	0.400 U	0.42 U	0.42 U		
Vanadium	0.200 U	14.60	14.59		
Zinc	2.014 B	116.00	115.88		
Cyanide	0.500 U	0.58 U	0.58 U		

Sample SS-S-2 (0-2") (Lab. #: 970437-03)

% Solids = 66.9					
Aluminum	2.600 U	5,580.00	5,576.18		
Antimony	0.800 U	1.00 U	1.05 U		
Arsenic	0.400 U	3.30	3.30		
Barium	0.200 U	19.00 B	19.00 B		
Beryllium	0.200 U	0.29 B	0.29 B		
Cadmium	0.200 U	0.26 UN	0.26 UN	J qualify	35
Calcium	1.600 U	753.00 B	753.43 B		
Chromium	0.200 U	11.80	11.79		
Cobalt	0.200 U	2.60 B	2.63 B		
Copper	0.200 U	8.50	8.48		
Iron	2.598 B	7,620.00	7,622.85		
Lead	0.400 U	48.90	48.88		
Magnesium	1.278 B	913.00 B	912.72 B		
Manganese	0.200 U	103.00	103.19		
Mercury	0.100 U	0.140 U	0.142 U		
Nickel	0.200 U	7.60 B	7.55 B		
Potassium	4.063 B	311.00 B	310.62 B		
Selenium	0.400 U	1.10 B	1.10 B		
Silver	0.200 U	0.26 U	0.26 U		
Sodium	1.589 B	82.70 B	81.70 B		
Thallium	0.400 U	0.52 U	0.52 U		
Vanadium	0.200 U	15.40	15.41		
Zinc	2.014 B	48.90	48.92		
Cyanide	0.500 U	0.75 U	0.75 U		

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TAL Inorganic Analyses

Samples Received February 27th & 28th, 1997

Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-3 (0-2") (Lab. #: 970437-03)					
% Solids = 76.2					
Aluminum	2.600 U	7,640.00	7,641.97		
Antimony	0.800 U	0.85 U	0.85 U		
Arsenic	0.400 U	3.90	3.89		
Barium	0.200 U	25.80	25.77		
Beryllium	0.200 U	0.21 U	0.21 U		
Cadmium	0.200 U	0.21 UN	0.21 UN	J	35
Calcium	1.600 U	1,280.00	1,281.52	qualify	
Chromium	0.200 U	9.10	9.09		
Cobalt	0.200 U	1.60 B	1.61 B		
Copper	0.200 U	10.60	10.64		
Iron	2.598 B	9,110.00	9,113.34		
Lead	0.400 U	54.00	54.01		
Magnesium	1.278 B	702.00 B	702.33 B		
Manganese	0.200 U	62.50	62.48		
Mercury	0.100 U	0.090 U	0.091 U		
Nickel	0.200 U	5.70 B	5.70 B		
Potassium	4.063 B	322.00 B	322.56 B		
Selenium	0.400 U	1.40	1.43		
Silver	0.200 U	0.21 U	0.21 U		
Sodium	1.589 B	80.10 B	80.10 B		
Thallium	0.400 U	0.42 U	0.42 U		
Vanadium	0.200 U	20.90	20.88		
Zinc	2.014 B	62.40	62.40		
Cyanide	0.500 U	0.63 U	0.63 U		

Sample SS-S-4 (0-2") (Lab. #: 970437-04)

% Solids = 68.5					
Aluminum	2.600 U	6,530.00	6,529.06		
Antimony	0.800 U	0.91 U	0.91 U		
Arsenic	0.400 U	3.40	3.40		
Barium	0.200 U	24.30 B	24.31 B		
Beryllium	0.200 U	0.29 B	0.29 B		
Cadmium	0.200 U	0.23 UN	0.23 UN	J	35
Calcium	1.600 U	1,770.00	1,769.77	qualify	
Chromium	0.200 U	8.50	8.50		
Cobalt	0.200 U	1.80 B	1.79 B		
Copper	0.200 U	7.00	7.05		
Iron	2.598 B	9,620.00	9,619.50		
Lead	0.400 U	40.00	39.95		
Magnesium	1.278 B	636.00 B	635.58 B		
Manganese	0.200 U	75.40	75.36		
Mercury	0.100 U	0.110 U	0.112 U		
Nickel	0.200 U	4.60 B	4.63 B		
Potassium	4.063 B	174.00 B	174.16 B		
Selenium	0.400 U	1.30	1.29		
Silver	0.200 U	0.23 U	0.23 U		
Sodium	1.589 B	69.20 B	69.20 B		
Thallium	0.400 U	0.46 U	0.46 U		
Vanadium	0.200 U	16.20	16.21		
Zinc	2.014 B	39.40	39.43		
Cyanide	0.500 U	0.70 U	0.70 U		

Data Validation Summary Table
For the Sonia Road Landfill

Soil TAL Inorganic Analyses
Samples Received February 27th & 28th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-5 (0-2") (Lab. #: 970437-05)					
		% Solids = 81.4			
Aluminum	2.600 U	4,490.00	4,488.57		
Antimony	0.800 U	0.85 U	0.85 U		
Arsenic	0.400 U	2.40	2.41		
Barium	0.200 U	14.90 B	14.87 B		
Beryllium	0.200 U	0.21 U	0.21 U		
Cadmium	0.200 U	0.21 UN	0.21 UN	J qualify	35
Calcium	1.600 U	1,520.00	1,518.34		
Chromium	0.200 U	6.70	6.71		
Cobalt	0.200 U	2.30 B	2.32 B		
Copper	0.200 U	8.90	8.91		
Iron	2.598 B	6,390.00	6,388.59		
Lead	0.400 U	22.20	22.19		
Magnesium	1.278 B	1,070.00	1,072.57		
Manganese	0.200 U	62.80	62.80		
Mercury	0.100 U	0.098 U	0.098 U		
Nickel	0.200 U	4.80 B	4.75 B		
Potassium	4.063 B	224.00 B	224.05 B		
Selenium	0.400 U	1.00 B	1.04 B		
Silver	0.200 U	0.21 U	0.21 U		
Sodium	1.589 B	74.10 B	74.15 B		
Thallium	0.400 U	0.43 U	0.43 U		
Vanadium	0.200 U	11.00	11.03		
Zinc	2.014 B	31.80	31.83		
Cyanide	0.500 U	0.61 U	0.61 U		

Sample SS-S-6 (0-2") (Lab. #: 970437-06)

		% Solids = 85.9			
Aluminum	2.600 U	4,540.00	4,538.64		
Antimony	0.800 U	0.80 U	0.80 U		
Arsenic	0.400 U	2.20	2.24		
Barium	0.200 U	17.90 B	17.87 B		
Beryllium	0.200 U	0.20 U	0.20 U		
Cadmium	0.200 U	0.20 UN	0.20 UN	J qualify	35
Calcium	1.600 U	1,250.00	1,253.25		
Chromium	0.200 U	9.40	9.39		
Cobalt	0.200 U	2.20 B	2.19 B		
Copper	0.200 U	9.40	9.43		
Iron	2.598 B	6,380.00	6,383.93		
Lead	0.400 U	119.00	118.62		
Magnesium	1.278 B	989.00 B	989.05 B		
Manganese	0.200 U	76.10	76.11		
Mercury	0.100 U	0.086 U	0.086 U		
Nickel	0.200 U	5.20 B	5.17 B		
Potassium	4.063 B	195.00 B	195.28 B		
Selenium	0.400 U	1.10	1.08		
Silver	0.200 U	0.20 U	0.20 U		
Sodium	1.589 B	65.20 B	65.22 B		
Thallium	0.400 U	0.40 U	0.40 U		
Vanadium	0.200 U	10.60	10.57		
Zinc	2.014 B	44.80	44.80		
Cyanide	0.500 U	0.56 U	0.56 U		

Data Validation Summary Table
For the Sonia Road Landfill

Soil TAL Inorganic Analyses

Samples Received February 27th & 28th, 1997

Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SS-S-7 (0-2") (Lab. #: 970437-07)					
		% Solids = 74.8			
Aluminum	2.600 U	2,690.00	2,694.54		
Antimony	0.800 U	1.20 B	1.21 B		
Arsenic	0.400 U	1.50 B	1.52 B		
Barium	0.200 U	37.50 B	37.47 B		
Beryllium	0.200 U	0.23 U	0.23 U		
Cadmium	0.200 U	0.74 BN	0.75 BN	J qualify	35
Calcium	1.600 U	5,320.00	5,316.58		
Chromium	0.200 U	9.00	9.05		
Cobalt	0.200 U	2.10 B	2.13 B		
Copper	0.200 U	15.60	15.58		
Iron	2.598 B	5,040.00	5,043.48		
Lead	0.400 U	69.40	69.39		
Magnesium	1.278 B	2,020.00	2,020.30		
Manganese	0.200 U	145.00	144.74		
Mercury	0.100 U	0.120 U	0.122 U		
Nickel	0.200 U	10.80	10.77		
Potassium	4.063 B	365.00 B	365.46 B		
Selenium	0.400 U	0.89 B	0.89 B		
Silver	0.200 U	0.23 U	0.23 U		
Sodium	1.589 B	95.70 B	95.75 B		
Thallium	0.400 U	0.46 U	0.46 U		
Vanadium	0.200 U	8.90 B	8.92 B		
Zinc	2.014 B	101.00	101.38		
Cyanide	0.500 U	0.67	0.67		

SUMMARY OF THE ANALYTICAL DATA VALIDATION **For the Sonia Road Landfill.**

New York State Department of Environmental Conservation **Data Validation Summary Form**

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # in CLP	Non Compliance
IRS001	8/01/97	95	SB-1-1	S	*	*	* See Text	Yes	Yes	B-5	IDLs >6 months old
IRS001DL	8/01/97	95	SB-1-1	S	NA	Yes	* See Text	NA	NA	B-5	IDLs >6 months old

* - IDL's were analyzed beyond the 6 month time limit.

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Volatile Organic Analyses - Method 95-1

Sample Received: August 1, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-1-1

9721876

One soil sample was received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
 - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

No other problems were found with the analyses of this sample which would affect the end use of the data.


Nancy J. Potak
October 1, 1997

Holding Time

The sample was analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were found with the one initial calibration associated with the analysis of the soil sample.

The percent difference of vinyl chloride (29%) was above the 25% quality assurance limit in the cone continuing calibration associated with the analysis of this sample. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table. Vinyl chloride was not detected in the sample.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed for the 95-1 analysis of this sample delivery group.

Blank Spike

A blank spike was not analyzed for the TCL analysis of this sample delivery group.

Method Blank

A low concentration of methylene chloride (3J ug/kg) was detected in the one method blank. This was negated according to the standard EPA data validation guidelines in the associated sample.

The data for the method blank is reported next to the data for the sample in the data validation summary table.

Trip Blank

A trip blank was not analyzed with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

Sample Results

No problems were found with the reported results of the sample of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 96-1
Sample Received August 1, 1997
Sample Delivery Group: IRS001

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SB-1-1 (Lab. #: 9721876)					
	% Moisture = 20				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	12 U	13 U		
Bromomethane	10 U	12 U	13 U		
Vinyl Chloride	10 U	12 U	13 U	J qualify	15
Chloroethane	10 U	12 U	13 U		
Methylene Chloride	3 J	4 JB	4 JB	negate	1
Acetone	10 U	15	15		
Carbon Disulfide	10 U	2 J	2 J		
1,1-Dichloroethene	10 U	10 U	13 U		
1,1-Dichloroethane	10 U	10 U	13 U		
1,2-Dichloroethene (total)	10 U	10 J	10 J		
Chloroform	10 U	1 J	1 J		
1,2-Dichloroethane	10 U	12 U	13 U		
2-Butanone	10 U	12 U	13 U		
1,1,1-Trichloroethane	10 U	12 U	13 U		
Carbon Tetrachloride	10 U	12 U	13 U		
Bromodichloromethane	10 U	12 U	13 U		
1,2-Dichloropropane	10 U	12 U	13 U		
cis-1,3-Dichloropropene	10 U	12 U	13 U		
Trichloroethene	10 U	12 U	13 U		
Dibromochloromethane	10 U	12 U	13 U		
1,1,2-Trichloroethane	10 U	12 U	13 U		
Benzene	10 U	12 U	13 U		
trans-1,3-Dichloropropene	10 U	12 U	13 U		
Bromoform	10 U	12 U	13 U		
4-Methyl-2-Pentanone	10 U	12 U	13 U		
2-Hexanone	10 U	12 U	13 U		
Tetrachloroethene	10 U	6 J	6 J		
1,1,2,2-Tetrachloroethane	10 U	12 U	13 U		
Toluene	10 U	7 J	7 J		
Chlorobenzene	10 U	6 J	6 J		
Ethylbenzene	10 U	4 J	4 J		
Styrene	10 U	12 U	13 U		
Xylene (total)	10 U	8 J	8 J		
Non-Target Volatile Organics					
Unknown Hydrocarbon (19.29)	ND	200 J	198 J		
Unknown Hydrocarbon (20.06)	ND	100 J	104 J		
Unknown Hydrocarbon (20.49)	ND	14 J	14 J		
Unknown Hydrocarbon (20.57)	ND	50 J	50 J		
C3 Substituted Benzene (21.01)	ND	31 J	31 J		
Unknown (21.11)	ND	20 J	20 J		
Unknown Hydrocarbon (21.32)	ND	32 J	32 J		
C4 Substituted Benzene (21.40)	ND	40 J	40 J		
C3 Substituted Benzene (21.67)	ND	11 J	11 J		
Benzene, 1,2-Dichloro- (21.73)	ND	47 J	47 J		
Unknown Aromatic (22.11)	ND	11 J	11 J		
Unknown (22.79)	ND	11 J	11 J		

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Volatile Organic Analyses - Method 95-1
Samples Received: August 1, 1997
Sample Delivery Group: IRS001
Laboratory Reference Numbers:

SB-1-1

9721876

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5970-3

Level: low - soils

Tune File ID: P060053.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: P06053.D

Date: 06/12/97

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Associated Samples: VBLK11, SB-1-1

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300

Surrogates:

Toluene-d8	<30.0	>0.01
Bromofluorobenzene *	<20.5	>0.20
1,2-Dichloroethane-d4	<30.0	>0.01

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes

All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:

PPB

	1,1-Dichloroethene	Toluene
10	42964/149828 * 5.000 = 1.434	105583/443408 * 5.000 = 1.191
20	88198/169617 * 2.500 = 1.300	214027/466970 * 2.500 = 1.146
50	192547/164974 * 1.000 = 1.167	468474/447838 * 1.000 = 1.046
100	400252/165960 * 0.500 = 1.206	978344/460488 * 0.500 = 1.062
200	802435/164375 * 0.250 = 1.220	1967210/450248 * 0.250 = 1.092

AV. RRF = 1.265

%RSD = 8.4%

AV. RRF = 1.107

%RSD = 5.4%

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5970-3
Tune File ID: P06600.D
Calibration File ID: P06601.D
Initial Calibration File ID: P06053.D
Associated Samples: VBLK11, SB-1-1

Level: low - soils

Acceptable: yes

Date: 08/11/97

Date: 06/12/97

Time Requirements Met: yes

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TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	29%	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: no

Footnote:

Footnote: 15

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND: 1,1,1-Trichloroethane

Ethylbenzene

PPB

50

187958/252925 * 1.000 = 0.743

75272/194306 * 1.000 = 0.387

%D: (0.661 - 0.743) / 0.661 * 100 = -12.405446

%D: (0.363 - 0.387) / 0.363 * 100 = -6.61157

METHOD BLANK: VBLK11

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Compound

Methylene Chloride

ppb

3J

<CRDL

10

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Semivolatile Organic Analyses - Method 95-2

Sample Received: August 1, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-1-1

9721876

SB-1-1DL

9721876DL

One soil sample was received for analyses of the semivolatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
 - Laboratory Blanks
 - Field Blank
- * - Surrogate Compound Recoveries
- * - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

No problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
October 18, 1997

Holding Times

The samples were extracted and analyzed within the holding times required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

Surrogate Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits with the exception of the reanalysis of sample SB-1-1DL. All of the surrogates were diluted out in the 500X analysis of this sample.

Calibrations

The % RSDs of pentachlorophenol (24%), fluoranthene (21%) and benzo[b]fluoranthene (22%) were just above the 20.5% quality assurance limit. The data for these compounds were flagged with the "J" qualifier and footnoted with #15 in the data validation summary table.

No problems were found with either of the two continuing calibrations.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to four compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

A matrix spike was not analyzed with the one soil sample of this delivery group.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

Method Blank

Several non-target compounds were detected in the method blank associated with this sample. Of these, only a common aldol condensation product was detected in the sample. This was negated according to the standard EPA data validation guidelines.

The data for the method blank is reported next to the data for the sample in the data validation summary table.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The summary form for the instrument detection limits noted that they were analyzed approximately 10 months before the analysis of the sample. The same GC/MS was used in the analysis of SDG: IRS003 and the IDL summary was reported as being done on 4/18/97. This is within the required 6 month time limitation.

Sample Results

Sample SB-1-1 (Lab. #: 9721876)

This sample was reanalyzed at a 500x dilution due to a very high concentration of bis-2-ethyhexylphthalate (370,000 ug/kg). All of the data, with the one exception of this compound, should be taken from the initial 5X dilution of the sample.

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Sample Received August 1, 1997
Sample Delivery Group: IRS001

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SB-1-1 (Lab. #: C06093.D)					
% Moisture = 19.5					
TCL Semivolatile Organics (Diluted 5X)					
Phenol	330 U	3,500 D	3,525 D		
bis(2-Chloroethyl)Ether	330 U	2,100 U	2,100 U		
2-Chlorophenol	330 U	2,100 U	2,100 U		
1,3-Dichlorobenzene	330 U	2,100 U	2,100 U		
1,4-Dichlorobenzene	330 U	1,000 JD	1,000 JD		
1,2-Dichlorobenzene	330 U	2,100 U	2,100 U		
2-Methylphenol	330 U	2,100 U	2,100 U		
bis(2-Chloroisopropyl)ether	330 U	2,100 U	2,100 U		
4-Methylphenol	330 U	2,100 U	2,100 U		
N-Nitroso-di-n-propylamine	330 U	2,100 U	2,100 U		
Hexachloroethane	330 U	2,100 U	2,100 U		
Nitrobenzene	330 U	2,100 U	2,100 U		
Isophorone	330 U	2,100 U	2,100 U		
2-Nitrophenol	330 U	2,100 U	2,100 U		
2,4-Dimethylphenol	330 U	2,100 U	2,100 U		
bis(2-Chloroethoxy)methane	330 U	2,100 U	2,100 U		
2,4-Dichlorophenol	330 U	2,100 U	2,100 U		
1,2,4-Trichlorobenzene	330 U	2,100 U	2,100 U		
Naphthalene	330 U	7,600 D	7,600 D		
4-Chloroaniline	330 U	2,100 U	2,100 U		
Hexachlorobutadiene	330 U	2,100 U	2,100 U		
4-Chloro-3-methylphenol	330 U	2,100 U	2,100 U		
2-Methylnaphthalene	330 U	3,600 D	3,650 D		
Hexachlorocyclopentadiene	330 U	2,100 U	2,100 U		
2,4,6-Trichlorophenol	330 U	2,100 U	2,100 U		
2,4,5-Trichlorophenol	800 U	5,200 U	5,200 U		
2-Chloronaphthalene	330 U	2,100 U	2,100 U		
2-Nitroaniline	800 U	5,200 U	5,200 U		
Dimethylphthalate	330 U	2,100 U	2,100 U		
Acenaphthylene	330 U	2,100 U	2,100 U		
2,6-Dinitrotoluene	330 U	2,100 U	2,100 U		
3-Nitroaniline	800 U	5,200 U	5,200 U		
Acenaphthene	330 U	750 JD	750 JD		
2,4-Dinitrophenol	800 U	5,200 U	5,200 U		
4-Nitrophenol	330 U	2,100 U	2,100 U		
Dibenzofuran	330 U	650 JD	650 JD		
2,4-Dinitrotoluene	330 U	2,100 U	2,100 U		
Diethylphthalate	330 U	230 JD	250 JD		
4-Chlorophenyl-phenylether	330 U	2,100 U	2,100 U		
Fluorene	330 U	800 JD	800 JD		
4-Nitroaniline	800 U	5,200 U	5,200 U		
4,6-Dinitro-2-methylphenol	800 U	5,200 U	5,200 U		
N-Nitrosodiphenylamine (1)	330 U	2,100 U	2,100 U		
4-Bromophenyl-phenylether	330 U	2,100 U	2,100 U		
Hexachlorobenzene	330 U	2,100 U	2,100 U		
Pentachlorophenol	800 U	5,200 U	5,200 U	J qualify	15
Phenanthrene	330 U	1,300 JD	1,250 JD		
Anthracene	330 U	540 JD	550 JD		
Carbazole	330 U	2,100 U	2,100 U		
Di-n-Butylphthalate	330 U	2,100 U	2,100 U		
Fluoranthene	330 U	1,500 JD	1,500 JD	qualify	15
Pyrene	330 U	1,400 JD	1,350 JD		
Butylbenzylphthalate	330 U	2,100 U	2,100 U		
3,3'-Dichlorobenzidine	330 U	2,100 U	2,100 U		
Benzo(a)anthracene	330 U	540 JD	550 JD		
Chrysene	330 U	660 JD	650 JD		
Bis(2-Ethylhexyl)phthalate	330 U	200,000 ED	206,150 ED	J qualify	72
Di-n-octylphthalate	330 U	2,100 U	2,100 U		
Benzo(b)fluoranthene	330 U	460 JD	450 JD	qualify	15
Benzo(k)fluoranthene	330 U	400 JD	400 JD		
Benzo(a)pyrene	330 U	310 JD	300 JD		
Indeno(1,2,3-cd)pyrene	330 U	2,100 U	2,100 U		
Dibenz(a,h)anthracene	330 U	2,100 U	2,100 U		
Benzo(g,h,i)perylene	330 U	270 JD	250 JD		

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2

Sample Received August 1, 1997

Sample Delivery Group: IRS001

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SB-1-1 (Lab. #: C06093.D)					
% Moisture = 19.5					
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (4.09)	63,000	4,100 JDNA	4,200 JDNA	B negate	1
Unknown PNA (12.16)	ND	4,100 JD	4,200 JD		
Unknown Alkane (12.60)	ND	7,700 JD	7,750 JD		
Unknown Alkane (13.04)	ND	6,000 JD	6,100 JD		
Unknown Subs. phenol (38.00)	ND	3,800 JD	3,800 JD		
Unknown Alkane (13.69)	ND	4,100 JD	4,200 JD		
Unknown PNA (14.76)	ND	4,700 JD	4,750 JD		
Unknown (14.88)	ND	3,500 JD	3,550 JD		
Unknown (15.18)	ND	520 JD	500 JD		
Unknown Alkane (18.26)	ND	4,100 JD	4,200 JD		
Unknown Alkane (18.77)	ND	4,500 JD	4,600 JD		
Unknown Alkane (19.40)	ND	2,900 JD	2,950 JD		
Unknown Alcohol (20.42)	ND	5,900 JD	5,900 JD		
Unknown Ketone (20.72)	ND	5,600 JD	5,700 JD		
Unknown Acid (20.94)	ND	3,000 JD	3,100 JD		
Unknown Ketone (21.09)	ND	3,000 JD	3,250 JD		

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Sample Received August 1, 1997
Sample Delivery Group: IRS001

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Dilution of Sample SB-1-1 (Lab. #: C06093.D DL)					
% Moisture = 19.5					
TCL Semivolatile Organics	(Diluted 500X)				
Phenol	330 U	210,000 U	210,000 U	J qualify	72
bis(2-Chloroethyl)Ether	330 U	210,000 U	210,000 U	J qualify	72
2-Chlorophenol	330 U	210,000 U	210,000 U	J qualify	72
1,3-Dichlorobenzene	330 U	210,000 U	210,000 U	J qualify	72
1,4-Dichlorobenzene	330 U	210,000 U	210,000 U	J qualify	72
1,2-Dichlorobenzene	330 U	210,000 U	210,000 U	J qualify	72
2-Methylphenol	330 U	210,000 U	210,000 U	J qualify	72
bis(2-Chloroisopropyl)ether	330 U	210,000 U	210,000 U	J qualify	72
4-Methylphenol	330 U	210,000 U	210,000 U	J qualify	72
N-Nitroso-di-n-propylamine	330 U	210,000 U	210,000 U	J qualify	72
Hexachloroethane	330 U	210,000 U	210,000 U	J qualify	72
Nitrobenzene	330 U	210,000 U	210,000 U	J qualify	72
Isophorone	330 U	210,000 U	210,000 U	J qualify	72
2-Nitrophenol	330 U	210,000 U	210,000 U	J qualify	72
2,4-Dimethylphenol	330 U	210,000 U	210,000 U	J qualify	72
bis(2-Chloroethoxy)methane	330 U	210,000 U	210,000 U	J qualify	72
2,4-Dichlorophenol	330 U	210,000 U	210,000 U	J qualify	72
1,2,4-Trichlorobenzene	330 U	210,000 U	210,000 U	J qualify	72
Naphthalene	330 U	210,000 U	210,000 U	J qualify	72
4-Chloroaniline	330 U	210,000 U	210,000 U	J qualify	72
Hexachlorobutadiene	330 U	210,000 U	210,000 U	J qualify	72
4-Chloro-3-methylphenol	330 U	210,000 U	210,000 U	J qualify	72
2-Methylnaphthalene	330 U	210,000 U	210,000 U	J qualify	72
Hexachlorocyclopentadiene	330 U	210,000 U	210,000 U	J qualify	72
2,4,6-Trichlorophenol	330 U	210,000 U	210,000 U	J qualify	72
2,4,5-Trichlorophenol	800 U	520,000 U	520,000 U	J qualify	72
2-Chloronaphthalene	330 U	210,000 U	210,000 U	J qualify	72
2-Nitroaniline	800 U	520,000 U	520,000 U	J qualify	72
Dimethylphthalate	330 U	210,000 U	210,000 U	J qualify	72
Acenaphthylene	330 U	210,000 U	210,000 U	J qualify	72
2,6-Dinitrotoluene	330 U	210,000 U	210,000 U	J qualify	72
3-Nitroaniline	800 U	520,000 U	520,000 U	J qualify	72
Acenaphthene	330 U	210,000 U	210,000 U	J qualify	72
2,4-Dinitrophenol	800 U	520,000 U	520,000 U	J qualify	72
4-Nitrophenol	330 U	210,000 U	210,000 U	J qualify	72
Dibenzofuran	330 U	210,000 U	210,000 U	J qualify	72
2,4-Dinitrotoluene	330 U	210,000 U	210,000 U	J qualify	72
Diethylphthalate	330 U	210,000 U	210,000 U	J qualify	72
4-Chlorophenyl-phenylether	330 U	210,000 U	210,000 U	J qualify	72
Fluorene	330 U	210,000 U	210,000 U	J qualify	72
4-Nitroaniline	800 U	520,000 U	520,000 U	J qualify	72
4,6-Dinitro-2-methylphenol	800 U	520,000 U	520,000 U	J qualify	72
N-Nitrosodiphenylamine (1)	330 U	210,000 U	210,000 U	J qualify	72
4-Bromophenyl-phenylether	330 U	210,000 U	210,000 U	J qualify	72
Hexachlorobenzene	330 U	210,000 U	210,000 U	J qualify	72
Pentachlorophenol	800 U	520,000 U	520,000 U	J qualify	15, 72
Phenanthrene	330 U	210,000 U	210,000 U	J qualify	72
Anthracene	330 U	210,000 U	210,000 U	J qualify	72
Carbazole	330 U	210,000 U	210,000 U	J qualify	72
Di-n-Butylphthalate	330 U	210,000 U	210,000 U	J qualify	72
Fluoranthene	330 U	210,000 U	210,000 U	J qualify	15, 72
Pyrene	330 U	210,000 U	210,000 U	J qualify	72
Butylbenzylphthalate	330 U	210,000 U	210,000 U	J qualify	72
3,3'-Dichlorobenzidine	330 U	210,000 U	210,000 U	J qualify	72
Benzo(a)anthracene	330 U	210,000 U	210,000 U	J qualify	72
Chrysene	330 U	210,000 U	210,000 U	J qualify	72
Bis(2-Ethylhexyl)phthalate	330 U	370,000 D	375,000 D		
Di-n-octylphthalate	330 U	210,000 U	210,000 U	J qualify	72
Benzo(b)fluoranthene	330 U	210,000 U	210,000 U	J qualify	15, 72
Benzo(k)fluoranthene	330 U	210,000 U	210,000 U	J qualify	72
Benzo(a)pyrene	330 U	210,000 U	210,000 U	J qualify	72
Indeno(1,2,3-cd)pyrene	330 U	210,000 U	210,000 U	J qualify	72
Dibenz(a,h)anthracene	330 U	210,000 U	210,000 U	J qualify	72
Benzo(g,h,i)perylene	330 U	210,000 U	210,000 U	J qualify	72
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (4.18)	63,000 JN	270,000 JDNAB	275,000 JDNAB	negate	1, 72

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Semivolatile Organic Analyses - Method 95-2

Sample Received: August 1, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-1-1
SB-1-1DL

9721876
9721876DL

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY**
(Page 1 of 2)

Instrument ID: H5972

Tune File ID: C04889.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: C04890.D

Date: 07/28/97

Page: 117

Associated Samples: SBLK01, MSB 8/5, SB-1-1, SB-1-1DL

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<20.5	>0.800	Acenaphthene *	<20.5	>0.800
bis(2-Chloroethyl)Ether *	<20.5	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<20.5	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<20.5	>0.600	Dibenzofuran *	<20.5	>0.800
1,4-Dichlorobenzene *	<20.5	>0.500	2,4-Dinitrotoluene *	<20.5	>0.200
1,2-Dichlorobenzene *	<20.5	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<20.5	>0.700	4-Chlorophenyl-phenylether *	<20.5	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<20.5	>0.900
4-Methylphenol *	<20.5	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<20.5	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<20.5	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<20.5	>0.200	4-Bromophenyl-phenylether *	<20.5	>0.100
Isophorone *	<20.5	>0.400	Hexachlorobenzene *	<20.5	>0.100
2-Nitrophenol *	<20.5	>0.100	Pentachlorophenol *	24%	>0.050
2,4-Dimethylphenol *	<20.5	>0.200	Phenanthrene *	<20.5	>0.700
bis(2-Chloroethoxy)methane *	<20.5	>0.1000	Anthracene *	<20.5	>0.700
2,4-Dichlorophenol *	<20.5	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<20.5	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<20.5	>0.700	Fluoranthene *	21%	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<20.5	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<20.5	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<20.5	>0.400	Benzo(a)anthracene *	<20.5	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<20.5	>0.700
2,4,6-Trichlorophenol *	<20.5	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<20.5	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<20.5	>0.800	Benzo(b)fluoranthene *	22%	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<20.5	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<20.5	>0.700
Acenaphthylene *	<20.5	>0.1000	Indeno(1,2,3-cd)pyrene *	<20.5	>0.500
2,6-Dinitrotoluene *	<20.5	>0.200	Dibenz(a,h)anthracene *	<20.5	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<20.5	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<20.5	>0.700			
Terphenyl-d14 *	<20.5	>0.500			
Phenol-d5 *	<20.5	>0.800			
2-Fluorophenol *	<20.5	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<20.5	>0.80			
1,2-Dichlorobenzene-d4 *	<20.5	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

Footnote:

All Compounds %RSD < QC Limit: no

Footnote: 15

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY**
(Page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

Compound:	Naphthalene	Hexachlorobenzene
PPB		
20	$67966/129712 * 2.000 = 1.048$	$13386/108964 * 2.000 = 0.246$
50	$254376/218098 * 0.800 = 0.933$	$48389/172444 * 0.800 = 0.224$
80	$307960/135622 * 0.500 = 1.135$	$71078/121050 * 0.500 = 0.294$
120	$651942/177098 * 0.333 = 1.226$	$142961/145961 * 0.333 = 0.326$
160	$642272/124332 * 0.250 = 1.291$	$158294/110459 * 0.250 = 0.358$
AV. RRF = 1.127	%RSD = 12.6%	AV. RRF = 0.290 %RSD = 19.1%

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5972

Tune File ID: C05075.D

Calibration File ID: C05076.D

Initial Calibration File ID: C04890.D

Associated Samples: SBLK01, MSB 8/5, SB-1-1

Acceptable: yes

Date: 08/11/97

Date: 07/28/97

Time Requirements Met: yes

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Page: 117

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

Footnote:

All Compounds %D < 25%: yes

Footnote:

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Nitrobenzene
PPB

Benzo[k]fluoranthene

50 50596/107590 * 0.800 = 0.376

151486/113235 * 0.800 = 1.070

PERCENT DIFFERENCE:

$$(0.369 - 0.376) / 0.369 * 100 = -1.897019$$

$$(1.209 - 1.070) / 1.209 * 100 = 11.497105$$

METHOD BLANK: SBLK01 (Page 200)

Compound	ppb	<CRDL
3-Pentan-2-one-4-methyl- (3.37)	490J	NA
Unknown (3.77)	510J	NA
2-Pentanone, 4-hydroxy-4-methyl (4.18)	63000JN	NA
Unknown Alkane (4.34)	150J	NA
Unknown Alcohol (7.92)	360J	NA
Unknown (14.03)	400J	NA

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5972

Tune File ID: C05148.D

Calibration File ID: C05149.D

Initial Calibration File ID: C04890.D

Associated Samples: SB-1-IDL

Acceptable: yes

Date: 08/15/97

Date: 07/28/97

Time Requirements Met: yes

Page: 160

Page: 117

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 2 of 2)**

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Fluorene
PPB

Phenanthrene

50 107147/59053 * 0.800 = 1.452

146017/81898 * 0.800 = 1.426

PERCENT DIFFERENCE:

$$(1.361 - 1.452) / 1.361 * 100 = -6.68626$$

$$(1.333 - 1.426) / 1.333 * 100 = -6.976744$$

METHOD BLANK: SBLK
Compound

(Page)

ppb

<CRDL

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Pesticide and PCB Analyses

Sample Received: August 1, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-1-1

9721876

SB-1-1DL

9721876DL

One soil samples was received for analyses of the pesticide and PCB TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Laboratory Blanks
 - Field Blanks
- * - Surrogate Recoveries
- * - Surrogate Retention Times
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Calibrations
- * - Analyte Resolutions
 - Performance Evaluation Mixtures
- * - IND A and IND B Standards
- * - Florisil Cartridge Check
- * - GPC Calibration
- * - Compound Identification
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The laboratory's case narrative notes that five pesticides and PCBs (heptachlor epoxide, DDE, DDD, alpha chlordane, gamma chlordane, and Aroclor 1242) were above the linear range of the calibration. These were reanalyzed at a 100X dilution. The data for these samples were flagged with the "J" qualifier and footnoted with #72 in the data validation summary table. The data for these compounds should be taken from the diluted analysis of this sample.

The laboratory's case narrative also states that "Aroclor 1242 and Aroclor 1016 are not distinguishable". They reported the entire PCB concentration as Aroclor 1242. The PCB are was flagged with the "Y" qualifier on FORM I to note this.

The laboratory noted that beta-BHC and endrin marginally meet the retention time requirement, but are not believed to be positive because the relative retention time

of the quantification (lower) column is not met. These compounds were flagged with the "X" qualifier on FORM I to note this.

Heptachlor epoxide is coeluting with a AR1016?AR1242 congener on both columns. Therefore part or the entire amount of this compound is due to the coeluting PCB. The data for this compound was flagged with the "Y" qualifier on FORM I and the reported concentration should be considered to be highly estimated.

No other problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
October 24, 1997

Holding Times

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

All surrogate recoveries were within the required quality assurance limits.

Matrix Spike

A soil matrix spike was not analyzed with the full TCL analyte list.

Blank Spike

All of the blank spike recoveries were within the acceptable limits.

Initial Calibrations

No problems were found with any of the initial calibrations.

The percent RSD of each of the single component pesticides must be less than 20%. The percent RSD of the two surrogates must be less than or equal to 30%. Up to two single compound target compounds per column may exceed the 20% limit for the %RSD, but those compounds must have a percent RSD of less than or equal to 30.0%. All of these requirements were met in the initial calibration.

Analyte Resolution

All percent resolutions were greater than 60% on both the RTX-5 and RTX-35 columns.

Performance Evaluation Mixtures

Several minor problems with resolution were found between gamma-BHC and beta-BHC (91%, 93%, 93%, 93%, 93%) in all of the RTX-5 column analyses. The NYS DEC ASP program requires that the resolution between all compounds in this standard be 100% (page E-89).

The relative percent difference of the calculated amount and the true amount for each of the single component pesticides and surrogates in the PEMs must be less than or equal to 25%.

No other problems were found with any of the performance evaluation mixtures.

Continuing Calibrations - IND A & IND B

All percent resolutions were greater than 90% on both the DB-608 and DB-1701 columns.

The relative percent difference of the calculated amount and the true amount for each of the single component pesticides and surrogates in the INDA and INDB standards must be less than or equal to 25%.

No other problems were detected with the continuing calibrations.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

Florisil Cartridge Check

All recoveries were within the 80% - 120% quality assurance limits.

The florisil cartridge check was performed on 1/20/97.

GPC Calibration

All of the GPC summary data were within the acceptable limits.

Method Blanks

No compounds were detected in the method blank.

Calibration Blanks

No compounds were detected in any of the calibration blank.

Field Blanks

Field blanks were not collected with this sample delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 7 months prior to the analysis of the samples. The NYS DEC ASP program requires that these be analyzed every 6 months.

No other problems were found with the reported instrument detection limits.

Sample Results

Sample SB-1-1 (Lab. #:9721876)

The laboratory's case narrative notes that five pesticides and PCBs (heptachlor epoxide, DDE, DDD, alpha chlordane, gamma chlordane, and Aroclor 1242) were above the linear range of the calibration. These were reanalyzed at a 100X dilution. The data for these samples were flagged with the "J" qualifier and footnoted with #72 in the data validation summary table. The data for these compounds should be taken from the diluted analysis of this sample.

The laboratory's case narrative also states that "Aroclor 1242 and Aroclor 1016 are not distinguishable". They reported the entire PCB concentration as Aroclor 1242. The PCB are was flagged with the "Y" qualifier on FORM I to note this.

The laboratory noted that beta-BHC and endrin marginally meet the retention time requirement, but are not believed to be positive because the relative retention time of the quantification (lower) column is not met. These compounds were flagged with the "X" qualifier on FORM I to note this.

Heptachlor epoxide is coeluting with a AR1016?AR1242 congener on both columns. Therefore part or the entire amount of this compound is due to the coeluting PCB. The data for this compound was flagged with the "Y" qualifier on FORM I and the reported concentration should be considered to be highly estimated.

No other problems were detected with any of the samples.

Sample SB-1																	
Page:		Date:		Time:		Sheet5											
% Solids =		0															
Calc.		Calc.		RT Window #1				RT Window #2				Calc.		%	RT	Calc.	
Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2	Amt. #1	Rec.	OK	Amt. #2	CF 1	CF 2	
alpha-BHC	56.73	0.00	8.08	8.18	8.12	673,989	10.69	10.79			182.6839			0.000	2,459,582	3,167,961	
beta-BHC	8.14	27.05	8.91	9.01	8.91	51,236	12.34	12.44	12.39	208,389	26.2203			87.116	1,302,706	1,594,731	
delta-BHC	0.00	0.00	9.84	9.94			13.58	13.68			0.0000			0.000	2,283,674	2,209,543	
gamma-BHC (Lindane)	6.20	0.00	200.00	9.08	9.18	9.14	71,330	12.05	12.15			19.9494	#DIV/0!	OK	0.000	2,383,692	2,864,210
Heptachlor	0.00	0.00	#DIV/0!	11.29	11.39			13.43	13.53			0.0000	#DIV/0!	OUT	0.000	2,171,450	2,558,965
Aldrin	0.00	0.00	#DIV/0!	12.40	12.50			14.47	14.57			0.0000	#DIV/0!	OUT	0.000	2,202,052	2,130,791
Heptachlor Epoxide	60.02	137.27		13.67	13.81	13.75	598,097	15.82	15.96	15.95	1,201,965	193.2643			442.014	2,063,140	1,812,860
Endosulfan I	16.29	7.44		14.66	14.80	14.73	134,231	16.74	16.88	16.86	63,654	52.4638			23.972	1,705,698	1,770,229
Dieldrin			#####	15.27	15.41			17.49	17.63	17.6	211,456	0.0000	#DIV/0!	OUT	77.198	1,769,697	1,826,095
4,4'- DDE	208.89	287.47	-31.7	15.17	15.31	16.26	1,871,481	17.25	17.39	17.33	2,222,681	672.6369			925.651	1,854,870	1,600,806
Endrin	42.93	11.11		15.78	15.92	15.89	313,914	18.37	18.51	18.37	73,343	138.2365	#DIV/0!	OK	35.774	1,513,898	1,366,767
Endosulfan II	61.24	0.00	200.0	16.00	16.14	16.04	476,226	18.84	18.98			197.1899			0.000	1,610,042	1,310,455
4,4' - DDD	955.55	864.88		16.15	16.29	16.23	6,035,975	18.65	18.79	18.74	5,789,536	3076.8868			2784.926	1,307,810	1,385,922
Endosulfan Sulfate	16.39	0.00		17.01	17.15	17.1	84,823	20.04	20.18			52.7747			0.000	1,199,098	1,165,422
4,4'-DDT	16.66	24.98	-39.9	17.02	17.16	17.1	84,823	19.46	19.60	19.58	168,383	53.6598	#DIV/0!	OK	80.438	1,179,318	1,312,674
Methoxychlor	24.92	3.01	156.9	18.40	18.65	18.45	73,088	21.55	21.69	21.55	7,668	80.2555		OK	9.692	607,128	527,453
Endrin Ketone	4.64	5.14	-12.3	18.16	18.30	18.19	37,270	21.93	22.07	21.99	28,026	14.6258		OK	16.537	1,698,824	1,129,862
Endrin Aldehyde	18.90	0.00		16.44	16.58	16.55	120,396	19.61	19.75			60.8482		OK	0.000	1,319,085	1,000,135
alpha-Chlordane	83.86	204.66		14.72	14.86	14.81	810,155	16.69	16.83	16.73	1,722,520	270.0205		OK	659.018	2,000,231	1,742,511
gamma-Chlordane	163.80	63.02		14.35	14.49	14.45	1,740,495	16.30	16.44	16.4	562,768	527.4249			202.940	2,199,991	1,848,719
TCX	115.9	46.2		6.92	7.01	6.96	165,384	8.37	8.47	8.44	115,176					1,783,551	3,115,069
DCB	94.0	110.6		22.69	22.89	22.81	109,233	25.76	25.96	25.89	99,807	#REF!	#REF!	OK	#REF!	1,452,622	1,127,561

Sample SB-1 Diluted 100X

	A	J	M	T	U	V	W	AB	AC	AE	AF	AG	AH	AI	AJ	AK	AL
1	Sample SB-1-1																
2																	
3																	
4		1016	1242		All	Sample	Sample										
5		CF	CF		RT	RT's	Area	1016		1242		1254		1260			
6		46,335	34,995	1	8.110	8.110	13,873	0.299	x	0.396	x						
7		50,010	31,125		9.120	9.120	1,915	0.038		0.062							
8		101,120	71,410		9.410	9.400	29,283	0.290		0.410							
9		55,550	43,465	2	10.010	10.010	15,597	0.281	x	0.359	x						
10		176,625	136,375	3	10.850	10.850	55,224	0.313	x	0.405	x						
11		75,425	62,120	4	11.160	11.170	24,712	0.328	x	0.398	x						
12		48,385	34,475	5	11.420	11.420	14,564	0.301	x	0.422	x						
13		46,925	37,280		11.940	11.940	13,940	0.297	x	0.374							
14		39,625	33,030		12.080	12.080	12,419	0.313		0.376							
15		32,375	25,530		12.200	12.190	9,692	0.299		0.380							
16		51,700	30,450		12.620	12.640	8,646	0.167		0.284							
17		32,900	29,425		12.740			0.000		0.000							
18		55,770	34,970		13.020	13.010	17,559	0.315		0.502							
19		22,500	22,500		13.740	13.740	12,209	0.543		0.543							
20		7,220	44,065		13.860	13.860	20,394	2.825		0.463							
21		34,880	49,850		14.000	13.970	24,140	0.692		0.484							
22		6,430	43,012		14.450	14.440	29,013	4.512		0.675							
23		32,735			14.590	14.590	14,888	0.455		#DIV/0!							
24		27,095			15.420	15.450	29,499	1.089		#DIV/0!							
25		46,070			15.730	15.740	2,151	0.047		#DIV/0!							
26		38,985			15.830	15.880	5,548	0.142		#DIV/0!							
27		99,860			16.000	16.030	7,460	0.075		#DIV/0!							
28																	
29							Mean	0.304		0.396		#DIV/0!					
30							ug/kg	6,300		8,201							
31																	
32																	
33																	
34																	
35																	

[illegible]

Initial Calibration																	
Sheet1																	
INDAMH																	
Page: 151		Date:		Time: 6:34													
RTX-5		RTX-35		RTX-5		RTX-35		#1 Calc.				RTX-35		RTX-5		RTX-35	
RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.	
From		To		OK		From		To		OK		CF 1		CF 2			
alpha-BHC	8.13	11.09	403,471	465,357	2,521,694	0.0800	1.00	2,908,481	0.0800	1.10	8.08	8.18	10.69	10.79	2,521,961	2,635,209	
beta-BHC											8.91	9.01	12.34	12.44	1,137,525	1,478,377	
delta-BHC											9.84	9.94	13.58	13.68	2,136,971	2,159,653	
gamma-BHC (Lindane)						0	0.0800	0.00	0	0.0800	0.00	9.08	9.18	12.05	12.15	2,303,288	2,348,788
Heptachlor						0	0.0800	0.00	0	0.0800	0.00	11.29	11.39	13.43	13.53	2,098,347	2,134,722
Aldrin											12.40	12.50	14.47	14.57	2,075,978	2,113,825	
Heptachlor Epoxide											13.67	13.81	15.82	15.96	1,894,394	1,799,078	
Endosulfan I						0	0.0800	0.00	0	0.0800	0.00	14.66	14.80	16.74	16.88	1,740,095	1,566,317
Dieldrin	15.34	17.56	560,827	504,655	1,752,584	0.1600	1.00	1,577,047	0.1600	1.00	15.27	15.41	17.49	17.63	1,752,583	1,577,046	
4,4'- DDE											15.17	15.31	17.25	17.39	1,613,044	1,557,434	
Endrin						0	0.1600	0.00	0	0.1600	0.00	15.78	15.92	18.37	18.51	1,490,792	1,166,088
Endosulfan II											16.00	16.14	18.84	18.98	1,398,978	1,235,342	
4,4' - DDD						0	0.1600	0.00	0	0.1600	0.00	16.15	16.29	18.65	18.79	1,283,608	1,200,403
Endosulfan Sulfate											17.01	17.15	20.04	20.18	1,120,891	1,175,351	
4,4'-DDT						0	0.1600	0.00	0	0.1600	0.00	17.02	17.16	19.46	19.60	1,202,962	1,122,932
Methoxychlor						0	0.8000	0.00	0	0.8000	0.00	18.40	18.65	21.55	21.69	540,778	429,307
Endrin Ketone											18.16	18.30	21.93	22.07	1,427,710	1,080,377	
Endrin Aldehyde											16.44	16.58	19.61	19.75	1,126,932	975,768	
alpha-Chlordane											14.72	14.86	16.69	16.83	1,750,146	1,703,055	
gamma-Chlordane											14.35	14.49	16.30	16.44	1,958,755	1,830,410	
TCX						0	0.0800	0.00	0	0.0800	0.00	6.92	7.01	8.37	8.47	1,665,660	2,511,854
DCB						0	0.1600	0.00	0	0.1600	0.00	22.69	22.89	25.76	25.96	1,345,691	976,252
INDBH																	
Page: 156		Date: 8/5/97		Time: 4:29													
RTX-5		RTX-35		RTX-5		RTX-35		#1 Calc.				RTX-35		RTX-5		RTX-35	
RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.	
From		To		OK		From		To		OK		CF 1		CF 2			
alpha-BHC											8.08	8.18	10.69	10.79	2,521,961	2,635,209	
beta-BHC						0	0.0800	0.00	0	0.0800	0.00	8.91	9.01	12.34	12.44	1,137,525	1,478,377
delta-BHC						0	0.0800	0.00	0	0.0800	0.00	9.84	9.94	13.58	13.68	2,136,971	2,159,653
gamma-BHC (Lindane)											9.08	9.18	12.05	12.15	2,303,288	2,348,788	
Heptachlor											11.29	11.39	13.43	13.53	2,098,347	2,134,722	
Aldrin	12.46	14.52	332,157	338,212	2,075,981	0.0800	1.00	2,113,825	0.0800	1.00	12.40	12.50	14.47	14.57	2,075,978	2,113,825	
Heptachlor Epoxide						0	0.0800	0.00	0	0.0800	0.00	13.67	13.81	15.82	15.96	1,894,394	1,799,078
Endosulfan I											14.66	14.80	16.74	16.88	1,740,095	1,566,317	
Dieldrin											15.27	15.41	17.49	17.63	1,752,583	1,577,046	
4,4'- DDE	15.24	17.32	516,174	488,379	1,613,044	0.1600	1.00	1,557,434	0.1600	1.00	15.17	15.31	17.25	17.39	1,613,044	1,557,434	
Endrin											15.78	15.92	18.37	18.51	1,490,792	1,166,088	
Endosulfan II						0	0.1600	0.00	0	0.1600	0.00	16.00	16.14	18.84	18.98	1,398,978	1,235,342
4,4' - DDD											16.15	16.29	18.65	18.79	1,283,608	1,200,403	
Endosulfan Sulfate	17.08	20.11	358,685	376,112	1,120,891	0.1600	1.00	1,175,350	0.1600	1.00	17.01	17.15	20.04	20.18	1,120,891	1,175,351	
4,4'-DDT											17.02	17.16	19.46	19.60	1,202,962	1,122,932	
Methoxychlor											18.40	18.65	21.55	21.69	540,778	429,307	
Endrin Ketone						0	0.1600	0.00	0	0.1600	0.00	18.16	18.30	21.93	22.07	1,427,710	1,080,377
Endrin Aldehyde						0	0.1600	0.00	0	0.1600	0.00	16.44	16.58	19.61	19.75	1,126,932	975,768
alpha-Chlordane						0	0.0800	0.00	0	0.0800	0.00	14.72	14.86	16.69	16.83	1,750,146	1,703,055
gamma-Chlordane						0	0.0800	0.00	0	0.0800	0.00	14.35	14.49	16.30	16.44	1,958,755	1,830,410
TCMX						0	0.0800	0.00	0	0.0800	0.00	6.92	7.01	8.37	8.47	1,665,660	2,511,854
DCB						0	0.1600	0.00	0	0.1600	0.00	22.69	22.89	25.76	25.96	1,345,691	976,252

Initial Calibration																																	
Sheet1																																	
INDAL																																	
Page: 142		Date: 8/5/97		Time: 1:32																													
RTX-5		RTX-35		RTX-5		RTX-35		#1 Calc.		RTX-35		RTX-5		RTX-35																			
RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C															
														From		To		OK															
																		CF 1															
																		CF 2															
alpha-BHC		8.13		10.74		21,397		32,523		2,139,700		0.0050		1.00		3,252,300		0.0050		1.00		8.08		8.18		10.69		10.79		2,139,690		3,252,329	
beta-BHC																						8.91		9.01		12.34		12.44		1,191,138		1,755,317	
delta-BHC																						9.84		9.94		13.58		13.68		1,863,598		2,387,854	
gamma-BHC (Lindane)		9.12		12.10		25,832		29,909		2,583,200		0.0050		1.00		2,990,900		0.0050		1.00		9.08		9.18		12.05		12.15		2,583,197		2,990,867	
Heptachlor		11.34		13.48		21,815		27,229		2,161,500		0.0050		1.00		2,722,900		0.0050		1.00		11.29		11.39		13.43		13.53		2,161,498		2,722,900	
Aldrin																						12.40		12.50		14.47		14.57		1,889,558		2,242,895	
Heptachlor Epoxide																						13.67		13.81		15.82		15.96		1,892,140		1,949,832	
Endosulfan I										0		0.0050		0.00		0		0.0050		0.00		14.66		14.80		16.74		16.88		1,636,318		1,764,498	
Dieldrin										0		0.0100		0.00		0		0.0100		0.00		15.27		15.41		17.49		17.63		1,671,760		1,816,551	
4,4'- DDE																						15.17		15.31		17.25		17.39		1,626,974		1,679,423	
Endrin										0		0.0100		0.00		0		0.0100		0.00		15.78		15.92		18.37		18.51		1,505,005		1,301,152	
Endosulfan II																						16.00		16.14		18.84		18.98		1,462,044		1,600,954	
4,4' - DDD										0		0.0100		0.00		0		0.0100		0.00		16.15		16.29		18.65		18.79		1,263,802		1,391,872	
Endosulfan Sulfate																						17.01		17.15		20.04		20.18		1,196,796		1,244,737	
4,4'-DDT										0		0.0100		0.00		0		0.0100		0.00		17.02		17.16		19.46		19.60		1,224,178		1,343,063	
Methoxychlor										0		0.0500		0.00		0		0.0500		0.00		18.40		18.65		21.55		21.69		725,369		595,077	
Endrin Ketone																						18.16		18.30		21.93		22.07		1,636,402		1,244,701	
Endrin Aldehyde																						16.44		16.58		19.61		19.75		1,302,052		1,094,899	
alpha-Chlordane																						14.72		14.86		16.69		16.83		1,905,341		1,908,905	
gamma-Chlordane																						14.35		14.49		16.30		16.44		2,031,193		2,026,488	
TCX		6.95		8.42						0.0050		####				0.0050		####				6.92		7.01		8.37		8.47		1,800,960		3,259,842	
DCB		22.79		25.86						0		0.0100		####		0		0.0100		0.00		22.69		22.89		25.76		25.96		1,628,577		1,162,302	
INDBL																																	
Page: 145		Date: 8/5/97		Time: 2:08																													
RTX-5		RTX-35		RTX-5		RTX-35		#1 Calc.		RTX-35		RTX-5		RTX-35																			
RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C															
alpha-BHC																				8.08		8.18		10.69		10.79		2,139,690		3,252,329			
beta-BHC										0		0.0050		0.00		0		0.0050		0.00		8.91		9.01		12.34		12.44		1,191,138		1,755,317	
delta-BHC										0		0.0050		0.00		0		0.0050		0.00		9.84		9.94		13.58		13.68		1,863,598		2,387,854	
gamma-BHC (Lindane)																						9.08		9.18		12.05		12.15		2,583,197		2,990,867	
Heptachlor																						11.29		11.39		13.43		13.53		2,161,498		2,722,900	
Aldrin										0		0.0050		0.00		0		0.0050		0.00		12.40		12.50		14.47		14.57		1,889,558		2,242,895	
Heptachlor Epoxide										0		0.0050		0.00		0		0.0050		0.00		13.67		13.81		15.82		15.96		1,892,140		1,949,832	
Endosulfan I																						14.66		14.80		16.74		16.88		1,636,318		1,764,498	
Dieldrin																						15.27		15.41		17.49		17.63		1,671,760		1,816,551	
4,4'- DDE		15.24		17.32		32,539		66,588		1,626,950		0.0100		1.00		3,329,400		0.0100		1.98		15.17		15.31		17.25		17.39		1,626,974		1,679,423	
Endrin																						15.78		15.92		18.37		18.51		1,505,005		1,301,152	
Endosulfan II		16.07		18.91		29,241		32,019		1,462,050		0.0100		1.00		1,600,950		0.0100		1.00		16.00		16.14		18.84		18.98		1,462,044		1,600,954	
4,4' - DDD																						16.15		16.29		18.65		18.79		1,263,802		1,391,872	
Endosulfan Sulfate		17.08		20.11		23,936		24,895		1,196,800		0.0100		1.00		1,244,750		0.0100		1.00		17.01		17.15		20.04		20.18		1,196,796		1,244,737	
4,4'-DDT																						17.02		17.16		19.46		19.60		1,224,178		1,343,063	
Methoxychlor																						18.40		18.65		21.55		21.69		725,369		595,077	
Endrin Ketone										0		0.0100		0.00		0		0.0100		0.00		18.16		18.30		21.93		22.07		1,636,402		1,244,701	
Endrin Aldehyde										0		0.0100		0.00		0		0.0100		0.00		16.44		16.58		19.61		19.75		1,302,052		1,094,899	
alpha-Chlordane										0		0.0050		0.00		0		0.0050		0.00		14.72		14.86		16.69		16.83		1,905,341		1,908,905	
gamma-Chlordane										0		0.0050		0.00		0		0.0050		0.00		14.35		14.49		16.30		16.44		2,031,193		2,026,488	
TCMX		6.95		8.42						#VALUE!		0.0050		####		0		0.0050		0.00		6.92		7.01		8.37		8.47		1,800,960		3,259,842	
DCB		22.79		25.85						#VALUE!		0.0100		####		0		0.0100		0.00		22.69		22.89		25.76		25.96		1,628,577		1,162,302	

[illegible]

INDAM04 / INDAWM03																					
Form VII	Page:	83																			
Raw Data	Page:	162	Date:	8/7/97	Time:	4:08	Sheet2														
Form VII	Page:	87																			
Raw Data	Page:	250																			
							Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2				
			RTX-5	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	
																				CF 1	CF 2
alpha-BHC			8.15	10.76	96,298	119,534	0.0392	0.0400	2.12	OK	0.038	0.0400	5.67	OK	8.08	8.18	10.69	10.79		2,459,582	3,167,961
beta-BHC															8.91	9.01	12.34	12.44		1,302,706	1,594,731
delta-BHC															9.84	9.94	13.58	13.68		2,283,674	2,209,543
gamma-BHC (Lindane)			9.15	12.12	91,354	108,297	0.0383	0.0400	4.19	OK	0.038	0.0400	5.47	OK	9.08	9.18	12.05	12.15		2,383,692	2,864,210
Heptachlor			11.37	13.5	90,399	100,542	0.0416	0.0400	-4.08	OK	0.039	0.0400	1.77	OK	11.29	11.39	13.43	13.53		2,171,450	2,558,965
Aldrin															12.40	12.50	14.47	14.57		2,202,052	2,130,791
Heptachlor Epoxide															13.67	13.81	15.82	15.96		2,063,140	1,812,860
Endosulfan I			14.74	16.82	69,257	66,625	0.0406	0.0400	-1.51	OK	0.038	0.0400	5.91	OK	14.66	14.80	16.74	16.88		1,705,698	1,770,229
Dieldrin			15.35	17.58	144,918	136,141	0.0819	0.0800	-2.36	OK	0.075	0.0800	6.81	OK	15.27	15.41	17.49	17.63		1,769,697	1,826,095
4,4'- DDE															15.17	15.31	17.25	17.39		1,854,870	1,600,806
Endrin			15.87	18.45	123,137	102,942	0.0813	0.0800	-1.67	OK	0.075	0.0800	5.85	OK	15.78	15.92	18.37	18.51		1,513,898	1,366,767
Endosulfan II															16.00	16.14	18.84	18.98		1,610,042	1,310,455
4,4'- DDD			16.24	18.74	105,240	103,787	0.0805	0.0800	-0.59	OK	0.075	0.0800	6.39	OK	16.15	16.29	18.65	18.79		1,307,810	1,385,922
Endosulfan Sulfate															17.01	17.15	20.04	20.18		1,199,098	1,165,422
4,4'-DDT			17.11	19.54	104,939	96,651	0.0890	0.0800	-11.23	OK	0.074	0.0800	7.96	OK	17.02	17.16	19.46	19.60		1,179,318	1,312,674
Methoxychlor			18.47	21.63	250,496	198,544	0.4126	0.4000	-3.15	OK	0.376	0.4000	5.89	OK	18.40	18.65	21.55	21.69		607,128	527,453
Endrin Ketone															18.16	18.30	21.93	22.07		1,698,824	1,129,862
Endrin Aldehyde															16.44	16.58	19.61	19.75		1,319,085	1,000,135
alpha-Chlordane															14.72	14.86	16.69	16.83		2,000,231	1,742,511
gamma-Chlordane															14.35	14.49	16.30	16.44		2,199,991	1,848,719
TCX			6.97	8.44	69,222	112,829	0.0388	0.0400	2.97	OK	0.036	0.0400	9.45	OK	6.92	7.01	8.37	8.47		1,783,551	3,115,069
DCB			22.81	25.88	116,879	86,305	0.0805	0.0800	-0.58	OK	0.077	0.0800	4.32	OK	22.69	22.89	25.76	25.96		1,452,622	1,127,561
INDBM04 / INDBWM03																					
Form VII	Page:	83																			
Raw Data	Page:	164	Date:	8/7/97	Time:	4:44															
Form VII	Page:	87																			
Raw Data	Page:	252																			
							Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2				
			RTX-5	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	
																				CF 1	CF 2
alpha-BHC															8.08	8.18	10.69	10.79		2,459,582	3,167,961
beta-BHC			8.98	12.41	44,206	67,578	0.0339	0.0400	15.17	OK	0.042	0.0400	-5.94	OK	8.91	9.01	12.34	12.44		1,302,706	1,594,731
delta-BHC			9.91	13.65	78,002	95,170	0.0342	0.0400	14.61	OK	0.043	0.0400	-7.68	OK	9.84	9.94	13.58	13.68		2,283,674	2,209,543
gamma-BHC (Lindane)															9.08	9.18	12.05	12.15		2,383,692	2,864,210
Heptachlor															11.29	11.39	13.43	13.53		2,171,450	2,558,965
Aldrin			12.48	14.54	78,868	90,324	0.0358	0.0400	10.46	OK	0.042	0.0400	-5.97	OK	12.40	12.50	14.47	14.57		2,202,052	2,130,791
Heptachlor Epoxide			13.76	15.9	74,562	78,199	0.0361	0.0400	9.65	OK	0.043	0.0400	-7.84	OK	13.67	13.81	15.82	15.96		2,063,140	1,812,860
Endosulfan I															14.66	14.80	16.74	16.88		1,705,698	1,770,229
Dieldrin															15.27	15.41	17.49	17.63		1,769,697	1,826,095
4,4'- DDE			15.26	17.34	131,178	137,655	0.0707	0.0800	11.60	OK	0.086	0.0800	-7.49	OK	15.17	15.31	17.25	17.39		1,854,870	1,600,806
Endrin															15.78	15.92	18.37	18.51		1,513,898	1,366,767
Endosulfan II			16.09	18.93	114,866	111,607	0.0713	0.0800	10.82	OK	0.085	0.0800	-6.46	OK	16.00	16.14	18.84	18.98		1,610,042	1,310,455
4,4'- DDD															16.15	16.29	18.65	18.79		1,307,810	1,385,922
Endosulfan Sulfate			17.09	20.13	90,816	99,097	0.0757	0.0800	5.33	OK	0.085	0.0800	-6.29	OK	17.01	17.15	20.04	20.18		1,199,098	1,165,422
4,4'-DDT															17.02	17.16	19.46	19.60		1,179,318	1,312,674
Methoxychlor															18.40	18.65	21.55	21.69		607,128	527,453
Endrin Ketone			18.25	22.02	122,868	102,047	0.0723	0.0800	9.59	OK	0.090	0.0800	-12.90	OK	18.16	18.30	21.93	22.07		1,698,824	1,129,862
Endrin Aldehyde			16.53	19.70	93,794	87,652	0.0711	0.0800	11.12	OK	0.088	0.0800	-9.55	OK	16.44	16.58	19.61	19.75		1,319,085	1,000,135
alpha-Chlordane			14.80	16.77	72,026	74,817	0.0360	0.0400	9.98	OK	0.043	0.0400	-7.34	OK	14.72	14.86	16.69	16.83		2,000,231	1,742,511
gamma-Chlordane			14.44	16.39	78,928	79,916	0.0359	0.0400	10.31	OK	0.043	0.0400	-8.07	OK	14.35	14.49	16.30	16.44		2,199,991	1,848,719
TCX			6.97	8.44	65,705	113,201	0.0368	0.0400	7.90	OK	0.036	0.0400	9.15	OK	6.92	7.01	8.37	8.47		1,783,551	3,115,069
DCB			22.81	25.88	109,494	87,357	0.0754	0.0800	5.78	OK	0.077	0.0800	3.16	OK	22.69	22.89	25.76	25.96		1,452,622	1,127,561

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INDAM10 / INDAWM03																					
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Raw Data	Page:	185	Date:	8/19/97	Time:	13:34															
Form VII	Page:	90																			
Raw Data	Page:																				
	RTX-6	RTX-36	Resp 1	Resp 2	Calc. Amt. #1	Nom. Amt. #1	RPD	RT OK	Calc. Amt. #2	Nom. Amt. #2	RPD	RT OK	RT Window #1 From	To	RT Window #2 From	To	OK	CF 1	CF 2		
alpha-BHC	9.15	12.12	97,998	X	0.0398	0.0400	0.39	OUT	#####	0.0200	#####	OUT	8.08	8.18	10.69	10.79		2,459,582	3,167,961		
beta-BHC													8.91	9.01	12.34	12.44		1,302,706	1,594,731		
delta-BHC													9.84	9.94	13.58	13.68		2,283,674	2,209,543		
gamma-BHC (Lindane)	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	9.08	9.18	12.05	12.15		2,383,692	2,864,210		
Heptachlor	11.36	13.50	87,646	X	0.0404	0.0400	-0.91	OK	#####	0.0200	#####	OK	11.29	11.39	13.43	13.53		2,171,450	2,558,965		
Aldrin													12.40	12.50	14.47	14.57		2,202,052	2,130,791		
Heptachlor Epoxide													13.67	13.81	15.82	15.96		2,063,140	1,812,860		
Endosulfan I	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	14.66	14.80	16.74	16.88		1,705,698	1,770,229		
Dieldrin	X	X	X	X	#VALUE!	0.0800	#####	OUT	#####	0.0400	#####	OUT	15.27	15.41	17.49	17.63		1,769,697	1,826,095		
4,4'- DDE													15.17	15.31	17.25	17.39		1,854,870	1,600,806		
Endrin	15.87	18.45	139,536	X	0.0922	0.0800	-15.21	OK	#####	0.0400	#####	OK	15.78	15.92	18.37	18.51		1,513,898	1,366,767		
Endosulfan II													16.00	16.14	18.84	18.98		1,610,042	1,310,455		
4,4' - DDD	X	X	X	X	#VALUE!	0.0800	#####	OUT	#####	0.0400	#####	OUT	16.15	16.29	18.65	18.79		1,307,810	1,385,922		
Endosulfan Sulfate													17.01	17.15	20.04	20.18		1,199,098	1,165,422		
4,4'-DDT	X	X	X	X	#VALUE!	0.0800	#####	OUT	#####	0.0400	#####	OUT	17.02	17.16	19.46	19.60		1,179,318	1,312,674		
Methoxychlor	18.48	21.64	220,045	X	0.3624	0.4000	9.39	OK	#####	0.2000	#####	OK	18.40	18.65	21.55	21.69		607,128	527,453		
Endrin Ketone													18.16	18.30	21.93	22.07		1,698,824	1,129,862		
Endrin Aldehyde													16.44	16.58	19.61	19.75		1,319,085	1,000,135		
alpha-Chlordane													14.72	14.86	16.69	16.83		2,000,231	1,742,511		
gamma-Chlordane													14.35	14.49	16.30	16.44		2,199,991	1,848,719		
TCX	6.97	8.44	68,744	X	0.0385	0.0400	3.64	OK	#####	0.0200	#####	OK	6.92	7.01	8.37	8.47		1,783,551	3,115,069		
DCB	22.81	25.88	107,918	X	0.0743	0.0800	7.14	OK	#####	0.0400	#####	OK	22.69	22.89	25.76	25.96		1,452,622	1,127,561		
INDBM10 / INDBWM03																					
Form VII	Page:	86																			
Raw Data	Page:	187	Date:	8/19/97	Time:	14:09															
Form VII	Page:	90																			
Raw Data	Page:																				
	RTX-6	RTX-36	Resp 1	Resp 2	Calc. Amt. #1	Nom. Amt. #1	RPD	RT OK	Calc. Amt. #2	Nom. Amt. #2	RPD	RT OK	RT Window #1 From	To	RT Window #2 From	To	OK	CF 1	CF 2		
alpha-BHC													8.08	8.18	10.69	10.79		2,459,582	3,167,961		
beta-BHC	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	8.91	9.01	12.34	12.44		1,302,706	1,594,731		
delta-BHC	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	9.84	9.94	13.58	13.68		2,283,674	2,209,543		
gamma-BHC (Lindane)													9.08	9.18	12.05	12.15		2,383,692	2,864,210		
Heptachlor													11.29	11.39	13.43	13.53		2,171,450	2,558,965		
Aldrin	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	12.40	12.50	14.47	14.57		2,202,052	2,130,791		
Heptachlor Epoxide	13.75	15.90	73,826	X	0.0358	0.0400	10.54	OK	#####	0.0200	#####	OK	13.67	13.81	15.82	15.96		2,063,140	1,812,860		
Endosulfan I													14.66	14.80	16.74	16.88		1,705,698	1,770,229		
Dieldrin													15.27	15.41	17.49	17.63		1,769,697	1,826,095		
4,4'- DDE	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	15.17	15.31	17.25	17.39		1,854,870	1,600,806		
Endrin													15.78	15.92	18.37	18.51		1,513,898	1,366,767		
Endosulfan II	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	16.00	16.14	18.84	18.98		1,610,042	1,310,455		
4,4' - DDD													16.15	16.29	18.65	18.79		1,307,810	1,385,922		
Endosulfan Sulfate	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	17.01	17.15	20.04	20.18		1,199,098	1,165,422		
4,4'-DDT													17.02	17.16	19.46	19.60		1,179,318	1,312,674		
Methoxychlor													18.40	18.65	21.55	21.69		607,128	527,453		
Endrin Ketone	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	18.16	18.30	21.93	22.07		1,698,824	1,129,862		
Endrin Aldehyde	X	X	X	X	#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	16.44	16.58	19.61	19.75		1,319,085	1,000,135		
alpha-Chlordane	14.80	16.77	71,253	X	0.0356	0.0400	10.94	OK	#####	0.0200	#####	OK	14.72	14.86	16.69	16.83		2,000,231	1,742,511		
gamma-Chlordane	14.43	16.39	78,044	X	0.0355	0.0400	11.31	OK	#####	0.0200	#####	OK	14.35	14.49	16.30	16.44		2,199,991	1,848,719		
TCX	6.97	8.44	66,419	X	0.0372	0.0400	6.90	OK	#####	0.0200	#####	OK	6.92	7.01	8.37	8.47		1,783,551	3,115,069		
DCB	22.80	25.88	104,743	X	0.0721	0.0800	9.87	OK	#####	0.0400	#####	OK	22.69	22.89	25.76	25.96		1,452,622	1,127,561		

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For Mohonk RI/FS (D002676-25)

Soil TAL Inorganic and Cyanide Analyses

Sample Received: August 1, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-1-1	9721876
SB-1-1S	9721876S
SB-1-1D	9721876D

Soil samples were received for TAL metals analyses by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
- * - CRDL Standards
- * - ICP Interference Check Sample
- * - Laboratory Control Sample
- * - Serial Dilutions
- * - Laboratory Blanks
- Field Blanks
- * - Preparation Blanks
- Matrix Spike
- Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
- Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

The chromium data is technically rejected due to the very high recovery of the matrix spike (246%). Only a relatively low concentration of this analyte was reported in the sample (38 mg/kg). This concentration may have been significantly overestimated.

The other more minor nonconformances with the matrix spike and matrix duplicate should be noted by all end users of the data.

No other problems were found which would affect the end use of the data.

Nancy J. Potak
Nancy J. Potak
October 17, 1997

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

The recoveries of all CRDL standards were within the 80% to 120% quality assurance limits.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

All of the traditional furnace analytes which were analyzed by ICP were also included in solution AB.

Matrix Spike Recovery

Sample SB-1-1 (Lab. #: 9721876) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte list with the exceptions of mercury and cyanide. All recoveries were within the acceptable limits (75% - 125%) with the following exceptions:

Analyte	MS %Rec	Qualifier
Antimony	53%	35
Barium	30%	35
Chromium	246%	38 Reject

Low concentrations of both antimony and barium were detected in the sample. These may have been underestimated because of this problem with matrix interference. The "N" qualifier was omitted from the sample FORM I. This was

added in the data validation summary table and a corrected copy of FORM I has been requested from the laboratory.

A low concentration of chromium was also detected in this sample (38 mg/kg). The very high spike recovery may have caused this value to be considerably overestimated. The data for this sample would be rejected according to the EPA HW-2 data validation guidelines (A.1.9.7.4).

Sodium was also flagged with the "N" qualifier on FORM I by the laboratory even though this analyte is not required to be added as a matrix spike. The laboratory has been asked to provide a corrected FORM I.

A sample from another sample delivery group was used for the matrix spike of mercury and cyanide. Both of these recoveries were within the required quality assurance limits. It is not know if the matrices of these samples can be compared with that of Sample SB-1-1.

Some of the matrix spikes were not added at the NYS DEC ASP required levels.

Duplicate Analysis

Sample SB-1-1 (Lab. #: 9721876) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCL analyte list with the exceptions of mercury and cyanide. All recoveries which could be calculated were within the acceptable limits with the following exceptions:

Analyte	MD RPD
Aluminum	76%
Barium	80%
Cadmium	56%
Copper	26%
Mercury	34%
Nickel	39%

All of the data for these analytes were flagged with the "J" qualifier and footnoted with #45 in the data validation summary table. The concentrations reported for these analytes should be considered to be estimated values.

A sample from another sample delivery group was used for the matrix spike of mercury and cyanide. The problem with the mercury precision is noted above and the cyanide RPD was within the required quality assurance limits. It is not know if the matrices of these samples can be compared with that of Sample SB-1-1. The data for mercury was flagged with the "" qualifier, but also reference with the "See Text" qualifier.

Laboratory Control Sample

No problems were detected with the recoveries of the soil LCS standard.

Serial Dilutions

Sample SB-1-1 (Lab. #: 9721876) of this sample delivery group was also used for the serial dilution. All of the percent differences which could be calculated were within the required quality assurance limits.

Instrument Detection Limit

No problems were found with the instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

No problems, aside from those noted above, were found with any of the reported sample data.

**Data Validation Summary Table
For the Sonia Road Landfill**

**Soil TAL Inorganic Analyses
Sample Received August 1, 1997
Sample Delivery Group: IRS001**

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	QA Validation Reported Conc. Decision		Qualifiers	Footnotes
Sample SB-1-1 (Lab. #: 9721876)						
% Solids = 80.5						
Aluminum	1.660 U	11,000.00 *	10,998.76 *	J	qualify	45
Antimony	0.600 U	1.40 BN	1.40 BN	J	qualify	35
Arsenic	0.448 U	5.70	5.71			
Barium	0.060 U	1,450.00 *	1,448.70 *N	J	qualify	See Text, 45
Beryllium	0.020 U	0.17 B	0.17 B	J	qualify	35
Cadmium	0.060 U	5.60 *	5.59 *	J	qualify	45
Calcium	5.427 B	8,230.00	8,226.09			
Chromium	0.080 U	38.30 N	38.31 N	R	reject	38
Cobalt	0.220 U	5.10 B	5.12 B			
Copper	0.213 B	74.90 *	74.91 *	J	qualify	45
Iron	-0.440 B	24,100.00	24,054.66			
Lead	0.200 U	274.00	274.01			
Magnesium	1.620 U	1,150.00 B	1,151.55 B			
Manganese	0.060 U	166.00	166.19			
Mercury	0.050 U	0.270 *	0.271 *	J	qualify	45, See Text
Nickel	0.260 U	43.50 *	43.50 *	J	qualify	45
Potassium	1.680 U	446.00 B	445.47 B			
Selenium	0.560 U	1.30	1.30			
Silver	0.180 U	0.45 B	0.45 B			
Sodium	6.307 B	118.00 BN	118.16 B			See Text
Thallium	0.520 U	0.65 U	0.65 U			
Vanadium	0.240 U	14.80	14.76			
Zinc	3.240 B	791.00	790.81			
Cyanide	0.500 U	0.62 U	0.62 U			

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

**New York State Department of Environmental Conservation
Data Validation Summary Form**

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Herbicide Compliance	Page # in CLP	Non Compliance
IRS001	8/01/97	95	SB-2-1 TCLP	S	*	*	*	Yes	?	B-5	IDLs >6 months old
IRS001	8/05/97	95	SB-3-1 TCLP	S	*	*	*	Yes	?	B-5	IDLs >6 months old

* - IDL's were analyzed beyond the 6 month time limit.

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil TCLP Volatile Organic Analyses

Samples Received: August 1st and 5th, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-2-1	9722223
SB2-1MS	9722223MS
SB2-1-MSD	9722223MSD
SB-3-1	9721875

Soil samples were received for extraction and analyses of the volatile organic TCLP analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

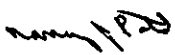
- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
- * - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
- * - Matrix Spike / Matrix Spike Duplicate
 - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

No other significant problems were found with the analyses of this sample which would affect the end use of the data.


Nancy J. Potak
October 1, 1997

Holding Times

The samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were detected with any of the initial or continuing calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample SB-2-1 (Lab. #: 9722223) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the acceptable quality control limits with the one exception of the RPD of 2-butanone (71%). This compound was not detected in any of the samples of this delivery group.

All of the 10 TCLP compounds were included in the spiking mixture.

Blank Spike

A blank spike was not analyzed for the TCLP volatile analysis of this sample delivery group.

Method Blank

No TCLP compounds were detected in either of the two method blanks of this sample delivery group.

Trip Blank

A trip blank was not analyzed with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

TCLP Extraction Blank

No TCLP compounds were detected in the extraction blank of this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

Sample Results

No problems were found with the reported results of the samples of this delivery group.

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TCL Volatile Organic Analyses - Method 95-1
Samples Received August 1st and 5th, 1997
Sample Delivery Group: A0437

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SB-2-1 (Lab. #: 9722223) Received August 5th					
TCL Volatile Organics	(Undiluted)				
Vinyl Chloride	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		

Sample SB-3-1 (Lab. #: 9721875) Received August 1st

TCL Volatile Organics	(Undiluted)				
Vinyl Chloride	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Volatile Organic TCLP Analyses
Samples Received: August 1st and 5th, 1997
Sample Delivery Group: IRS001
Laboratory Reference Numbers:

SB-2-1
SB2-1MS
SB2-1-MSD
SB-3-1

9722223
9722223MS
9722223MSD
9721875

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5970-3 Level: low - water
 Tune File ID: P05319.D.D Acceptable: yes Time Requirements Met: yes
 Initial Calibration File ID: P05321.D Date: 12/31/96 Page: 52
 Associated Samples: VBLK13, LFB13, VTBLK8/8, SB-2-1, SB-2-1MS, SB-2-1MSD, VBLK15, SB-3-1

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300
Surrogates:					
Toluene-d8	<30.0	>0.01			
Bromofluorobenzene *	<20.5	>0.20			
1,2-Dichloroethane-d4	<30.0	>0.01			

All Compounds Average RRF > QC Limit: yes
 All Compounds Average RRF > 0.05: yes
 All Compounds %RSD < QC Limit: yes
 All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	Chloroform	Benzene
PPB		
10	114751/136095 * 5.000 = 4.216	100535/510750 * 5.000 = 0.984
20	235463/147473 * 2.500 = 3.992	207031/543161 * 2.500 = 0.953
50	568563/142680 * 1.000 = 3.985	499051/517138 * 1.000 = 0.965
100	1141639/139592 * 0.500 = 4.089	985080/525241 * 0.500 = 0.938
200	2130329/133470 * 0.250 = 3.990	1900391/486324 * 0.250 = 0.977

AV. RRF = 4.054

%RSD = 2.5%

AV. RRF = 0.963

%RSD = 1.9%

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5970-3	Level: low - water	
Tune File ID: P06647.D	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: P06648.D	Date: 8/13/97	Page: 88
Initial Calibration File ID: P05321.D	Date: 12/31/96	Page: 52
Associated Samples: VBLK13, LFB13, VTBLK8/8, SB-2-1, SB-2-1MS, SB-2-1MSD		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes
 All Compounds Average RRF > 0.01: yes
 All Compounds %D < QC Limit: yes

Footnote:
 Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	Vinyl Chloride	Tetrachloroethene
PPB		
50	92818/73466 * 1.000 = 1.2634	147046/216825 * 1.000 = 0.678
%D:	(1.391 - 1.263) / 1.391 * 100 = 9.202013	%D: (0.725 - 0.678) / 0.725 * 100 = 6.482759

METHOD BLANK: VBLK13 (Page 109)

Compound	ppb	<CRDL
No TCLP compounds were detected in this method blank		

TCLP EXTRACTION BLANK: VTBLK8/8 (Page 115)

Compound	ppb	<CRDL
No TCLP compounds were detected in this method blank		

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5970-3

Level: low - water

Tune File ID: P06692.D

Acceptable: yes

Time Requirements Met: yes

Calibration File ID: P06693.D

Date: 08/15/97

Page: 92

Initial Calibration File ID: P05321.D

Date: 12/31/96

Page: 52

Associated Samples: VBLK15, SB-3-1

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:

Carbon Tetrachloride

Chlorobenzene

PPB

50

195014/217842 * 1.000 = 0.895

188239/174280 * 1.000 = 1.080

%D: (0.912 - 0.895) / 0.912 * 100 = 1.864035

%D: (1.175 - 1.080) / 1.175 * 100 = 8.085106

METHOD BLANK: VBLK15

(Page 112)

Compound

ppb

<CRDL

No TCLP compounds were detected in this method blank

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Semivolatile TCLP Analyses
Samples Received: August 1st and 5th, 1997
Sample Delivery Group: IRS001
Laboratory Reference Numbers:

SB-2-1	9722223
SB 2-1MS	9722223MS
SB 2-1-MSD	9722223MSD
SB-3-1	9721875

Soil samples were received for analyses of the semivolatile organic TCLP analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
 - Calibrations
 - Laboratory Blanks
 - Field Blank
 - Surrogate Compound Recoveries
 - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
 - Compound Quantitation
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The instrument detection limits were analyzed approximately 10 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples (B-5).

Several problems were found with the recoveries in the matrix spike and matrix spike duplicate analyses of sample SB-2-1. Low spike recoveries were obtained for hexachloroethane (54% and 58%) in the matrix spike and matrix spike duplicate, and in the matrix spike duplicate for 2,4,6-trichlorophenol (27%), 2,4,5-trichlorophenol (26%), and 2,4-dinitrotoluene (32%). Low concentrations of these compounds may have been overlooked in these samples. The data were not qualified for the low matrix spike recoveries.

All of the TCLP sample data included a listing of the non-target compounds. These are not generally required to be reported in the NYS DEC ASP program.

No other problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
October 18, 1997

Holding Times

The samples were extracted and analyzed within the holding times required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

Surrogate Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits with the exception recovery of the 2,4,6-tribromophenol surrogate in the matrix spike duplicate of sample SB-2-1 (146%). This was above the 123% quality assurance limit. This did not affect the end use of the data since no problems were found with the recoveries of any of the surrogates in the analysis of sample SB-2-1 itself.

Calibrations

No problems were found with the one initial calibration associated with the samples of this delivery group.

The percent difference of pentachlorophenol (33%) was above the 25% quality assurance limit. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to four compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample SB-2-1 (Lab. #: 9722223) of this sample delivery group was used for the analysis of the matrix spike and matrix spike duplicate. All of the TCLP compounds were included in the spiking solution.

Compound	MS %Rec	MSD %Rec	QC Limits	RPD	Limits
Pyridine		22%	50% - 168%	114%	20%
1,4-Dichlorobenzene			36% - 97%		10%
2-Methylphenol			59% - 156%		16%
3-Methylphenol/4-Methylphenol			46% - 148%		17%
Hexachloroethane	58%	54%	80% - 171%		15%
Nitrobenzene			55% - 109%		9%
Hexachlorobutadiene			44% - 116%		12%
2,4,6-Trichlorophenol			65% - 113%	27%	8%
2,4,5-Trichlorophenol		120%	64% - 112%	26%	8%
2,4-Dinitrotoluene		130%	24% - 96%	32%	12%
Hexachlorobenzene			67% - 97%		5%
Pentachlorophenol			9% - 103%		16%

None of these compounds were detected in either of these samples. Low concentrations of hexachloroethane, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, and 2,4-dinitrotoluene and other compounds may have been overlooked in these samples. The data were not qualified for these low matrix spike recoveries.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

Method Blank

Several non-target compounds were detected in the method blank associated with this sample. Of these only, a common aldol condensation product was detected in the sample. This was negated according to the standard EPA data validation guidelines.

The data for the method blank is reported next to the data for the sample in the data validation summary table.

TCLP Extraction Blank

Several non-target compounds were detected in the TCLP extraction blank. These were negated whenever they were detected in an associated sample.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group with the one exception of the recovery of the perylene-d12 internal standard in the matrix spike duplicate of sample SB2-1 which was only 14%. This is very usual since the recoveries of this same internal standard was 150% in the sample itself and 145% in the matrix spike. The data were not qualified for the low internal standard recovery.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 10 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

Sample Results

The quantitation limits reported for 2,4,5-trichlorophenol (25 ug/l) and pentachlorophenol (25 ug/l) were greater than the 10 ug/l required in the NYS DEC ASP manual (page C-29).

The IDL reported for 2,4,5-trichlorophenol (page 29) was 1.1 ug/l and the IDL reported for pentachlorophenol (page 30) was 0.361 ug/l. It is not known why the higher reporting limits were used for the reporting of the sample data.

All of the TCLP sample data included a listing of the non-target compounds. These are not generally required to be reported in the NYS DEC ASP program.

Sample SB-2-1 (Lab. #:9722223)

Low spike recoveries were obtained for hexachloroethane (54 % and 58%) in the matrix spike and matrix spike duplicate, and in the matrix spike duplicate for 2,4,6-trichlorophenol (27%), 2,4,5-trichlorophenol (26%), and 2,4-dinitrotoluene (32%). Low concentrations of these compounds may have been overlooked in this sample. The data were not qualified for these low matrix spike recoveries.

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Form VII	Page:	86	Sheet2																			
Raw Data	Page:	185	Date:	8/19/97	Time:	13:34																
Form VII	Page:	90																				
Raw Data	Page:																					
						Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2						
			RTX-5	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2
alpha-BHC			9.15	12.12	97,998	X	0.0398	0.0400	0.39	OUT	#####	0.0200	#####	OUT	8.08	8.18		10.69	10.79		2,459,582	3,167,961
beta-BHC															8.91	9.01		12.34	12.44		1,302,706	1,594,731
delta-BHC															9.84	9.94		13.58	13.68		2,283,674	2,209,543
gamma-BHC (Lindane)	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	9.08	9.18		12.05	12.15		2,383,692	2,864,210
Heptachlor			11.36	13.50	87,646	X	0.0404	0.0400	-0.91	OK	#####	0.0200	#####	OK	11.29	11.39		13.43	13.53		2,171,450	2,558,965
Aldrin															12.40	12.50		14.47	14.57		2,202,052	2,130,791
Heptachlor Epoxide															13.67	13.81		15.82	15.96		2,063,140	1,812,860
Endosulfan I	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	14.66	14.80		16.74	16.88		1,705,698	1,770,229
Dieldrin	X	X	X	X	X		#VALUE!	0.0800	#####	OUT	#####	0.0400	#####	OUT	15.27	15.41		17.49	17.63		1,769,697	1,826,095
4,4'- DDE															15.17	15.31		17.25	17.39		1,854,870	1,600,806
Endrin			15.87	18.45	139,536	X	0.0922	0.0800	-15.21	OK	#####	0.0400	#####	OK	15.78	15.92		18.37	18.51		1,513,898	1,366,767
Endosulfan II															16.00	16.14		18.84	18.98		1,610,042	1,310,455
4,4' - DDD	X	X	X	X	X		#VALUE!	0.0800	#####	OUT	#####	0.0400	#####	OUT	16.15	16.29		18.65	18.79		1,307,810	1,385,922
Endosulfan Sulfate															17.01	17.15		20.04	20.18		1,199,098	1,165,422
4,4'-DDT	X	X	X	X	X		#VALUE!	0.0800	#####	OUT	#####	0.0400	#####	OUT	17.02	17.16		19.46	19.60		1,179,318	1,312,674
Methoxychlor			18.48	21.64	220,045	X	0.3624	0.4000	9.39	OK	#####	0.2000	#####	OK	18.40	18.65		21.55	21.69		607,128	527,453
Endrin Ketone															18.16	18.30		21.93	22.07		1,698,824	1,129,862
Endrin Aldehyde															16.44	16.58		19.61	19.75		1,319,085	1,000,135
alpha-Chlordane															14.72	14.86		16.69	16.83		2,000,231	1,742,511
gamma-Chlordane															14.35	14.49		16.30	16.44		2,199,991	1,848,719
TCX			6.97	8.44	68,744	X	0.0385	0.0400	3.64	OK	#####	0.0200	#####	OK	6.92	7.01		8.37	8.47		1,783,551	3,115,069
DCB			22.81	25.88	107,918	X	0.0743	0.0800	7.14	OK	#####	0.0400	#####	OK	22.69	22.89		25.76	25.96		1,452,622	1,127,561
INDBM10 / INDBWM03																						
Form VII	Page:	86																				
Raw Data	Page:	187	Date:	8/19/97	Time:	14:09																
Form VII	Page:	90																				
Raw Data	Page:																					
							Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2					
			RTX-5	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2
alpha-BHC															8.08	8.18		10.69	10.79		2,459,582	3,167,961
beta-BHC	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	8.91	9.01		12.34	12.44		1,302,706	1,594,731
delta-BHC	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	9.84	9.94		13.58	13.68		2,283,674	2,209,543
gamma-BHC (Lindane)															9.08	9.18		12.05	12.15		2,383,692	2,864,210
Heptachlor															11.29	11.39		13.43	13.53		2,171,450	2,558,965
Aldrin	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	12.40	12.50		14.47	14.57		2,202,052	2,130,791
Heptachlor Epoxide			13.75	15.90	73,826	X	0.0358	0.0400	10.54	OK	#####	0.0200	#####	OK	13.67	13.81		15.82	15.96		2,063,140	1,812,860
Endosulfan I															14.66	14.80		16.74	16.88		1,705,698	1,770,229
Dieldrin															15.27	15.41		17.49	17.63		1,769,697	1,826,095
4,4'- DDE	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	15.17	15.31		17.25	17.39		1,854,870	1,600,806
Endrin															15.78	15.92		18.37	18.51		1,513,898	1,366,767
Endosulfan II	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	16.00	16.14		18.84	18.98		1,610,042	1,310,455
4,4' - DDD															16.15	16.29		18.65	18.79		1,307,810	1,385,922
Endosulfan Sulfate	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	17.01	17.15		20.04	20.18		1,199,098	1,165,422
4,4'-DDT															17.02	17.16		19.46	19.60		1,179,318	1,312,674
Methoxychlor															18.40	18.65		21.55	21.69		607,128	527,453
Endrin Ketone	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	18.16	18.30		21.93	22.07		1,698,824	1,129,862
Endrin Aldehyde	X	X	X	X	X		#VALUE!	0.0400	#####	OUT	#####	0.0200	#####	OUT	16.44	16.58		19.61	19.75		1,319,085	1,000,135
alpha-Chlordane			14.80	16.77	71,253	X	0.0356	0.0400	10.94	OK	#####	0.0200	#####	OK	14.72	14.86		16.69	16.83		2,000,231	1,742,511
gamma-Chlordane			14.43	16.39	78,044	X	0.0355	0.0400	11.31	OK	#####	0.0200	#####	OK	14.35	14.49		16.30	16.44		2,199,991	1,848,719
TCX			6.97	8.44	66,419	X	0.0372	0.0400	6.90	OK	#####	0.0200	#####	OK	6.92	7.01		8.37	8.47		1,783,551	3,115,069
DCB			22.80	25.88	104,743	X	0.0721	0.0800	9.87	OK	#####	0.0400	#####	OK	22.69	22.89		25.76	25.96		1,452,622	1,127,561

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For Mohonk RI/FS (D002676-25)

Soil TCLP Inorganic Analyses
Samples Received: August 1st and 5th, 1997
Sample Delivery Group: IRS001
Laboratory Reference Numbers:

SB-2-1	9722223
SB2-1MS	9722223MS
SB2-1-MSD	9722223MSD
SB-3-1	9721875

Soil samples were received for TCLP metals analyses by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
- * - CRDL Standards
- * - ICP Interference Check Sample
- * - Laboratory Control Sample
- * - Serial Dilutions
- * - Laboratory Blanks
- Field Blanks
- * - Preparation Blanks
- * - Matrix Spike
- * - Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
- * - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

No problems were found which would affect the end use of the data.


Nancy J. Potak
October 17, 1997

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

The recoveries of all CRDL standards were within the 80% to 120% quality assurance limits.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

TCLP Extraction Blank

Several analytes were found in the TCLP extraction blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

All of the traditional furnace analytes which were analyzed by ICP were also included in solution AB.

Matrix Spike Recovery

Sample SB-2-1 (Lab. #:9722223) of this sample delivery group was used for the matrix spike for the full inorganic TCLP analyte list. All recoveries were within the required quality assurance limits (75% - 125%).

Duplicate Analysis

Sample SB-2-1 (Lab. #:9722223) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCLP analyte. All recoveries which could be calculated were within the acceptable quality assurance limits.

Laboratory Control Sample

No problems were detected with the recoveries of the LCS standard.

Serial Dilutions

Sample SB-2-1 (Lab. #:9722223) of this sample delivery group was also used for the serial dilution. All of the relative percent differences which could be calculated were within the required quality assurance limits.

Instrument Detection Limit

No problems with the instrument detection limits were found.

ICP Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

No problems were found with any of the reported sample data.

**Data Validation Summary Table
For the Sonia Road Landfill**

**Soil TAL Inorganic Analyses
Sample Received August 1, 1997
Sample Delivery Group: IRS001**

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes

Sample SB-2-1 (Lab. #: 9722223) Received 8/6

Arsenic	2.40 U	4.70 B	4.70 B		
Barium	0.533 B	248.00 B	247.70 B		
Cadmium	0.367 B	1.30 B	1.30 B		
Chromium	1.267 B	10.20 B	10.20 B		
Lead	1.000 U	75.90 B	75.90 B		
Mercury	0.100 U	0.10 U	0.10 U		
Selenium	2.800 U	2.80 U	2.80 U		
Silver	10.000 U	10.00 U	10.00 U		

Sample SB-3-1 (Lab. #: 9721875) Received 8/1

Arsenic	2.40 U	3.30 B	3.26 B		
Barium	0.533 B	318.00 B	317.70 B		
Cadmium	0.367 B	4.50 B	4.50 B		
Chromium	1.267 B	6.80 B	6.80 B		
Lead	1.000 U	80.60 B	80.57 B		
Mercury	0.100 U	0.10 U	0.10 U		
Selenium	2.800 U	2.80 U	2.80 U		
Silver	10.000 U	10.00 U	10.00 U		

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil TCLP Herbicide Analyses

Samples Received: August 1st and 5th, 1997

Sample Delivery Group: IRS001

Laboratory Reference Numbers:

SB-2-1	9722223
SB2-1MS	9722223MS
SB2-1-MSD	9722223MSD
SB-3-1	9721875

Soil samples were received for extraction and analyses of the herbicide TCLP analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- Calibrations
- * - Laboratory Blanks
- Field Blanks
- Trip Blanks
- Surrogate Compound Recoveries
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
- Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The calibration factors reported by the laboratory did not agree with those that were calculated from the raw data. The correct calibration factors, along with the nanograms of each injected, were supplied in the laboratory's 11/5 fax. The data calculated for the continuing calibrations are slightly different from those reported in the original report. The laboratory has not been requested to resubmit all of the continuing calibration forms since the sample data were not directly affected.

No TCLP herbicides were found in the data.

No other significant problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
October 26, 1997

Holding Times

The samples were analyzed within the holding times required by the NYS DEC's ASP program.

Surrogate Compound Recoveries

Both DCAA and TCX were used as surrogates for this analysis.

All surrogate compound recoveries were within the laboratory's quality assurance limits (51% - 147%) with the exceptions of the two TCLP extraction blanks. The recoveries of both the DCAA and TCX surrogates were less than the quality assurance limit (24% and 33%) in the first TCLP extraction blank, and the DCAA surrogate was less than the quality assurance limit (45%) in the second extraction blank. There should not be a problem with surrogate recoveries in a blank.

All of the sample surrogate recoveries were within the required quality assurance limits. The low surrogate recoveries in the extraction blanks do not directly affect the end use of the data.

Calibrations

The amount of standards used in the calibrations was not included in the original data package. This information was received in the laboratory's 11/4 fax.

A total of six calibration standards were analyzed for the initial calibration.

The calibration factors reported by the laboratory did not agree with those that were calculated from the raw data. The correct calibration factors, along with the nanograms of each injected, were supplied in the laboratory's 11/5 fax. The data calculated for the continuing calibrations are slightly different from those reported in the original report. The laboratory has not been requested to resubmit all of the continuing calibration forms since the sample data were not directly affected.

Section 4.3.3.3 of the NYS DEC ASP manual requires that the percent relative standard deviation be less than 10%. The percent RSDs of 2,4-D (22%), 2,4,5-TP (13%) and the surrogate DCAA (21%) were all greater than the 10% quality assurance limit. It should be noted that this method only requires the use of three initial calibration standards. All of the data for these compounds were flagged with the "J" qualifier and footnoted with #15 in the data validation summary table.

No problems were detected with any of the initial or continuing calibrations of this sample delivery group.

Calibration Blanks

No compounds were detected in any of the calibration blanks.

Matrix Spike / Matrix Spike Duplicate

Sample SB-2-1 (Lab. #: 9722223) of this sample delivery group was used for the matrix spike and matrix spike duplicate. Both 2,4-D and 2,4,5-TP were used as the spiking compounds. All recoveries and RPDs were within the acceptable quality control limits.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

Method Blank

No TCLP compounds were detected in either of the two method blanks of this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

TCLP Extraction Blank

No TCLP compounds were detected in either of the two extraction blanks of this sample delivery group.

Instrument Detection Limits

No problems were detected with the reported instrument detection limits.

Sample Results

No problems, aside from those noted above, were found with the reported results of the samples of this delivery group.

**Data Validation Summary Table
For the Sonia Road Landfill**

**Soil TCLP Herbicide Analyses
Samples Received August 1st and 5th, 1997
Sample Delivery Group: IRS001**

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SB-2-1 (Lab. #: 9722223) Received August 5th					
2,4-D	8 U	8 U	8 U	J	quality 15
2,4,5-TP	2 U	2 U	2 U	J	quality 15
Sample SB-3-1 (Lab. #: 9721875) Received August 1st					
2,4-D	8 U	8 U	8 U	J	quality 15
2,4,5-TP	2 U	2 U	2 U	J	quality 15

Initial Calibration		Reported Calibration Factors																		
RTX-6	L #1	L #2	L #3	L #4	L #5	L #6	Mean	2 ST DEV	% RSD											
2,4-D	864,636	722,567	608,426	578,663	550,887	482,511	634,615	137,556	21.68											
2,4,5-TP	3,045,548	#####	3,078,194	2,856,023	2,689,113	2,411,557	#####	395,417	13.44											
DCAA	581,366	475,829	399,816	384,803	368,397	340,546	425,126	89,017	20.94											
		Area Counts																		
RTX-6	L #1	L #2	L #3	L #4	L #5	L #6														
2,4-D	130,041	217,348	366,029	435,154	497,120	725,696														
2,4,5-TP	115,731	271,646	467,886	542,644	613,118	916,392														
DCAA	437,187	715,647	1,202,646	1,446,858	1,662,209	2,560,909														
		ng Injected																		
RTX-6	L #1	L #2	L #3	L #4	L #5	L #6														
2,4-D	0.16	0.32	0.64	0.80	0.96	1.60														
2,4,5-TP	0.04	0.08	0.16	0.20	0.24	0.40														
DCAA	0.80	1.60	3.20	4.00	4.80	8.00														
		Calculated Calibration Factors																		
RTX-6	L #1	L #2	L #3	L #4	L #5	L #6	Mean	ST DEV	% RSD											
2,4-D	812,756	679,213	571,920	543,943	517,833	453,560	596,537	129,302	21.68	596,537	1.00									
2,4,5-TP	2,893,275	#####	2,924,288	2,713,220	2,554,658	2,290,980	#####	375,646	13.44	2,795,333	1.00									
DCAA	546,484	447,279	375,827	361,715	346,294	320,114	399,619	83,676	20.94	399,619	1.00									

Calibration Verification	INDAPT302																			
	Page: 25	Date: 8/15/97	Time: 13:13:26	Sheet2																
	RT1	RT2	Resp 1	Resp 2	Calc. Amt. #1	Nom. Amt. #1	RPD	RT OK	Calc. Amt. #2	Nom. Amt. #2	RPD	RT OK	RT Window #1 From	To	OK	RT Window #2 From	To	OK	CF 1	CF 2
2,4-D	20.38		382,399		0.6410	0.6400	-0.16	OK	#DIV/0!	0.0150	#DIV/0!	OUT	20.34	20.44		#####	8.41		596,537	
2,4,5-TP	21.37		422,963		0.1513	0.1600	5.43	OK	#DIV/0!	0.0150	#DIV/0!	OUT	21.32	21.42		#####	9.87		2,795,333	
																	10.96			
DCAA	18.81		1,211,533		3.0317	3.2000	5.26	OK	#DIV/0!	0.0150	#DIV/0!	OUT	18.78	18.88		#####	9.59		399,619	
Calibration Verification	INDAPT303																			
	Page: 60	Date: 8/16/97	Time: 6:24:32																	
	RT1	RT2	Resp 1	Resp 2	Calc. Amt. #1	Nom. Amt. #1	RPD	RT OK	Calc. Amt. #2	Nom. Amt. #2	RPD	RT OK	RT Window #1 From	To	OK	RT Window #2 From	To	OK	CF 1	CF 2
2,4-D	20.37		458,138		0.7680	0.6400	-20.00	OK	0.000	0.0150	100.00	OUT	20.34	20.44		8.31	8.41		596,537	4,824,888
2,4,5-TP	21.36		480,707		0.1720	0.1600	-7.48	OK	0.000	0.0150	100.00	OUT	21.32	21.42		9.77	9.87		2,795,333	1,519,057
																	10.86	10.96		4,304,243
DCAA	18.80		1,332,879		3.3354	3.2000	-4.23	OK	0.000	0.0150	100.00	OUT	18.78	18.88		9.49	9.59		399,619	4,541,947
Calibration Verification	INDAPT304																			
	Page: 62	Date: 8/16/97	Time: 15:03:42																	
	RT1	RT2	Resp 1	Resp 2	Calc. Amt. #1	Nom. Amt. #1	RPD	RT OK	Calc. Amt. #2	Nom. Amt. #2	RPD	RT OK	RT Window #1 From	To	OK	RT Window #2 From	To	OK	CF 1	CF 2
2,4-D	20.37		463,450		0.7769	0.6400	-21.39	OK	0.000	0.0150	100.00	OUT	20.34	20.44		8.31	8.41		596,537	4,824,888
2,4,5-TP	21.36		475,967		0.1703	0.1600	-6.42	OK	0.000	0.0150	100.00	OUT	21.32	21.42		9.77	9.87		2,795,333	1,519,057
																	10.86	10.96		4,304,243
DCAA	18.80		1,309,348		3.2765	3.2000	-2.39	OK	0.000	0.0150	100.00	OUT	18.78	18.88		9.49	9.59		399,619	4,541,947
Calibration Verification	INDAPT305																			
	Page: 64	Date: 8/19/97	Time: 15:22:13																	
	RT1	RT2	Resp 1	Resp 2	Calc. Amt. #1	Nom. Amt. #1	RPD	RT OK	Calc. Amt. #2	Nom. Amt. #2	RPD	RT OK	RT Window #1 From	To	OK	RT Window #2 From	To	OK	CF 1	CF 2
2,4-D	20.37		462,541		0.7754	0.6400	-21.15	OK	0.000	0.0150	100.00	OUT	20.34	20.44		8.31	8.41		596,537	4,824,888
2,4,5-TP	21.36		483,266		0.1729	0.1600	-8.06	OK	0.000	0.0150	100.00	OUT	21.32	21.42		9.77	9.87		2,795,333	1,519,057
																	10.86	10.96		4,304,243
DCAA	18.80		1,320,975		3.3056	3.2000	-3.30	OK	0.000	0.0150	100.00	OUT	18.78	18.88		9.49	9.59		399,619	4,541,947

Calibration Verification		INDAPT306																			
		Page: 66	Date: 8/19/97	Time: 22:30:30		Sheet 2															
						Calc.	Nom.	RT	Calc.	Nom.		RT	RT Window #1			RT Window #2					
		RT1	RT2	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2
2,4-D		20.37		480,726		0.8059	0.6400	-25.92	OK	0.000	0.0150	100.00	OUT	20.34	20.44		8.31	8.41		596,537	4,824,888
2,4,5-TP		21.36		489,483		0.1751	0.1600	-9.44	OK	0.000	0.0150	100.00	OUT	21.32	21.42		9.77	9.87		2,795,333	1,519,057
																	10.86	10.96			4,304,243
DCAA		18.80		1,325,962		3.3181	3.2000	-3.69	OK	0.000	0.0150	100.00	OUT	18.78	18.88		9.49	9.59		399,619	4,541,947

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

**New York State Department of Environmental Conservation
Data Validation Summary Form**

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # in CLP	Non Compliance
IRS003	8/01/97	95	SB-1-1	S	*	Yes	*	Yes	Yes	B-5	IDLs >6 months old

* - IDL's were analyzed beyond the 6 month time limit.

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Soil Volatile Organic Analyses - Method 95-1

Sample Received: August 15, 1997

Sample Delivery Group: IRS003

Laboratory Reference Numbers:

SB-4 (44-46)	9723439
SB-4 (44-46)MS	9723439MS
SB-4 (44-46)MSD	9723439MSD

One soil sample was received for analysis of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

No other problems were found with the analyses of this sample which would affect the end use of the data.

Nancy J. Potak
Nancy J. Potak
October 1, 1997

Holding Time

The sample was analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were found with the one initial calibration associated with the analysis of the soil sample.

The percent difference of carbon tetrachloride (30%) was above the 25% quality assurance limit in the one continuing calibration associated with the analysis of this sample. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table. Carbon tetrachloride was not detected in the sample.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample SB-4 (44-46) (Lab. #: 9723439) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

Method Blank

A low concentration of methylene chloride (2J ug/kg) was detected in the one method blank. This was negated according to the standard EPA data validation guidelines in the associated sample.

The data for the method blank is reported next to the data for the sample in the data validation summary table.

Trip Blank

A trip blank was not analyzed with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

Sample Results

No problems were found with the reported results of the sample of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 85-1
Sample Received August 15, 1997
Sample Delivery Group: IRS003

Sample / Analyte	Method	Lab.	QA		Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc.	Decision		
Sample SB4(44-46) (Lab. #: 9723439)						
TCL Volatile Organics	(Undiluted)	% Moisture = 16				
Chloromethane	10 U	12 U	12 U			
Bromomethane	10 U	12 U	12 U			
Vinyl Chloride	10 U	12 U	12 U			
Chloroethane	10 U	12 U	12 U			
Methylene Chloride	2 J	3 JB	3 JB		negate	1
Acetone	10 U	9 J	9 J			
Carbon Disulfide	10 U	2 J	2 J			
1,1-Dichloroethene	10 U	12 U	12 U			
1,1-Dichloroethane	10 U	12 U	12 U			
1,2-Dichloroethene (total)	10 U	12 U	12 U			
Chloroform	10 U	12 U	12 U			
1,2-Dichloroethane	10 U	12 U	12 U			
2-Butanone	10 U	3 J	3 J			
1,1,1-Trichloroethane	10 U	12 U	12 U			
Carbon Tetrachloride	10 U	12 U	12 U			
Bromodichloromethane	10 U	12 U	12 U			
1,2-Dichloropropane	10 U	12 U	12 U			
cis-1,3-Dichloropropene	10 U	12 U	12 U			
Trichloroethene	10 U	12 U	12 U			
Dibromochloromethane	10 U	12 U	12 U			
1,1,2-Trichloroethane	10 U	12 U	12 U			
Benzene	10 U	12 U	12 U			
trans-1,3-Dichloropropene	10 U	12 U	12 U			
Bromoform	10 U	12 U	12 U			
4-Methyl-2-Pentanone	10 U	12 U	12 U			
2-Hexanone	10 U	12 U	12 U			
Tetrachloroethene	10 U	12 U	12 U			
1,1,2,2-Tetrachloroethane	10 U	12 U	12 U			
Toluene	10 U	12 U	12 U			
Chlorobenzene	10 U	12 U	12 U			
Ethylbenzene	10 U	12 U	12 U			
Styrene	10 U	12 U	12 U			
Xylene (total)	10 U	12 U	12 U			

Non-Target Volatile Organics
None Detected

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Volatile Organic Analyses - Method 95-1
Sample Received: August 15, 1997
Sample Delivery Group: IRS003
Laboratory Reference Numbers:

SB-4 (44-46)
SB-4 (44-46)MS
SB-4 (44-46)MSD

9723439
9723439MS
9723439MSD

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5970-3 Level: low - soils
Tune File ID: P060053.D Acceptable: yes Time Requirements Met: yes
Initial Calibration File ID: P06053.D Date: 06/12/97 Page: 24
Associated Samples: VBLK16, MSB16, SB(44-46), SB(44-46)MS, SB(44-46)MSD

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300
Surrogates:					
Toluene-d8	<30.0	>0.01			
Bromofluorobenzene *	<20.5	>0.20			
1,2-Dichloroethane-d4	<30.0	>0.01			

All Compounds Average RRF > QC Limit: yes
All Compounds Average RRF > 0.05: yes
All Compounds %RSD < QC Limit: yes
All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Toluene
PPB		
10	42964/149828 * 5.000 = 1.434	105583/443408 * 5.000 = 1.191
20	88198/169617 * 2.500 = 1.300	214027/466970 * 2.500 = 1.146
50	192547/164974 * 1.000 = 1.167	468474/447838 * 1.000 = 1.046
100	400252/165960 * 0.500 = 1.206	978344/460488 * 0.500 = 1.062
200	802435/164375 * 0.250 = 1.220	1967210/450248 * 0.250 = 1.092

AV. RRF = 1.265

%RSD = 8.4%

AV. RRF = 1.107

%RSD = 5.4%

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5970-3	Level: low - soils	
Tune File ID: P06716.D	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: P06717.D	Date: 08/16/97	Page: 45
Initial Calibration File ID: P06053.D	Date: 06/12/97	Page: 24
Associated Samples: VBLK16, MSB16, SB(44-46), SB(44-46)MS, SB(44-46)MSD		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	30%	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes
 All Compounds Average RRF > 0.01: yes
 All Compounds %D < QC Limit: no

Footnote:
 Footnote: 15

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1,1-Trichloroethane	Ethylbenzene
PPB		
50	154509/190124 * 1.000 = 0.813	53922/155261 * 1.000 = 0.347

%D: (0.661 - 0.813) / 0.661 * 100 = -22.995461 %D: (0.363 - 0.347) / 0.363 * 100 = -4.407713

METHOD BLANK: VBLK16 (Page 69)

Compound	ppb	<CRDL
Methylene Chloride	2J	10

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Volatile Organic Analyses - Method 95-1

Sample Received August 15, 1997

Sample Delivery Group: IRS003

Sample / Analyte	Method	Lab.	QA		Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision			
Sample SB4(44-46) (Lab. #: 9723439)						
TCL Volatile Organics	(Undiluted)	% Moisture = 16				
Chloromethane	10 U	12 U	12 U			
Bromomethane	10 U	12 U	12 U			
Vinyl Chloride	10 U	12 U	12 U			
Chloroethane	10 U	12 U	12 U			
Methylene Chloride	2 J	3 JB	3 JB			
Acetone	10 U	9 J	9 J		negate	1
Carbon Disulfide	10 U	2 J	2 J			
1,1-Dichloroethene	10 U	12 U	12 U			
1,1-Dichloroethane	10 U	12 U	12 U			
1,2-Dichloroethene (total)	10 U	12 U	12 U			
Chloroform	10 U	12 U	12 U			
1,2-Dichloroethane	10 U	12 U	12 U			
2-Butanone	10 U	3 J	3 J			
1,1,1-Trichloroethane	10 U	12 U	12 U			
Carbon Tetrachloride	10 U	12 U	12 U	J	quality	15
Bromodichloromethane	10 U	12 U	12 U			
1,2-Dichloropropane	10 U	12 U	12 U			
cis-1,3-Dichloropropene	10 U	12 U	12 U			
Trichloroethene	10 U	12 U	12 U			
Dibromochloromethane	10 U	12 U	12 U			
1,1,2-Trichloroethane	10 U	12 U	12 U			
Benzene	10 U	12 U	12 U			
trans-1,3-Dichloropropene	10 U	12 U	12 U			
Bromoform	10 U	12 U	12 U			
4-Methyl-2-Pentanone	10 U	12 U	12 U			
2-Hexanone	10 U	12 U	12 U			
Tetrachloroethene	10 U	12 U	12 U			
1,1,2,2-Tetrachloroethane	10 U	12 U	12 U			
Toluene	10 U	12 U	12 U			
Chlorobenzene	10 U	12 U	12 U			
Ethylbenzene	10 U	12 U	12 U			
Styrene	10 U	12 U	12 U			
Xylene (total)	10 U	12 U	12 U			

Non-Target Volatile Organics

None Detected

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill

Soil Semivolatile Organic Analyses - Method 95-2

Sample Received: August 15, 1997

Sample Delivery Group: IRS003

Laboratory Reference Numbers:

SB-4 (44-46)	9723439
SB-4 (44-46)DL	9723439DL
SB-4 (44-46)MS	9723439MS
SB-4 (44-46)MSD	9723439MSD

One soil sample was received for analyses of the semivolatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
 - Laboratory Blanks
 - Field Blank
- * - Surrogate Compound Recoveries
- * - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
- * - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

All recoveries and RPDs of the matrix spike and matrix spike duplicate were within the required quality assurance limits with the one exception of the RPD of pyrene (41%) which was above the 36% quality assurance limit. The low concentrations of pyrene which were detected in this sample should be considered to be estimated values. The data were not qualified for the pyrene RPD.

No other problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
October 18, 1997

Holding Times

The samples were extracted and analyzed within the holding times required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

Surrogate Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

The percent difference of fluoranthene (30%) was above the 25% quality assurance limit in the continuing calibration associated with the analysis of the blank spike.

No other problems were detected with any of the calibrations.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to four compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample SB-4 (44-46) (Lab. #: 9723439) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits with the one exception of the RPD of pyrene (41%) which was above the 36% quality assurance limit.

The low concentrations of pyrene which were detected in this sample should be considered to be estimated values. The data were not qualified for the pyrene RPD.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

Method Blank

Several non-target compounds were detected in the method blank associated with this sample. These were negated according to the standard EPA data validation guidelines whenever they were detected in a sample.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

No problems were detected with the instrument detection limits.

Sample Results

Sample SB-4 (44-46) (Lab. #: 9723439)

This sample was reanalyzed at a 2X dilution due to a high concentration of bis-2-ethyhexylphthalate (3,700 ug/kg). All of the data with the one exception of this compound should be taken from the initial undiluted analysis of the sample.

Data Validation Summary Table
For the Sonia Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2
Sample Received August 15, 1997
Sample Delivery Group: IRS003

Sample / Analyte	Method		Lab.	Validation	QA	Qualifiers	Footnotes
	Blank	Reported					
	Conc.	Conc.		Reported	Conc.		
	(PPB)	(PPB)		Conc.	Decision		
TCL Semivolatile Organics							
	(Unlitred)				% Moisture = 15.9		
Phenol	330 U	400 U	400 U	400 U			
bis(2-Chloroethyl)Ether	330 U	400 U	400 U	400 U			
2-Chlorophenol	330 U	400 U	400 U	400 U			
1,3-Dichlorobenzene	330 U	400 U	400 U	400 U			
1,4-Dichlorobenzene	330 U	400 U	400 U	400 U			
1,2-Dichlorobenzene	330 U	400 U	400 U	400 U			
2-Methylphenol	330 U	400 U	400 U	400 U			
bis(2-Chloropropyl)ether	330 U	400 U	400 U	400 U			
4-Methylphenol	330 U	400 U	400 U	400 U			
N-Nitroso-di-n-propylamine	330 U	400 U	400 U	400 U			
Hexachloroethane	330 U	400 U	400 U	400 U			
Nitrobenzene	330 U	400 U	400 U	400 U			
Isophorone	330 U	400 U	400 U	400 U			
2-Nitrophenol	330 U	400 U	400 U	400 U			
2,4-Dimethylphenol	330 U	400 U	400 U	400 U			
bis(2-Chloroethoxy)methane	330 U	400 U	400 U	400 U			
2,4-Dichlorophenol	330 U	400 U	400 U	400 U			
1,2,4-Trichlorobenzene	330 U	400 U	400 U	400 U			
Naphthalene	330 U	400 U	400 U	400 U			
4-Chloroaniline	330 U	400 U	400 U	400 U			
Hexachlorobutadiene	330 U	400 U	400 U	400 U			
4-Chloro-3-methylphenol	330 U	400 U	400 U	400 U			
2-Methylnaphthalene	330 U	98 J	400 U	100 J			
Hexachlorocyclopentadiene	330 U	400 U	400 U	400 U			
2,4,6-Trichlorophenol	800 U	400 U	990 U	1,000 U			
2,4,5-Trichlorophenol	800 U	400 U	990 U	1,000 U			
2-Chloronaphthalene	330 U	400 U	990 U	1,000 U			
2-Nitroaniline	330 U	400 U	400 U	400 U			
Dimethylphthalate	330 U	400 U	400 U	400 U			
Acenaphthylene	330 U	400 U	400 U	400 U			
2,6-Dinitrotoluene	800 U	400 U	990 U	1,000 U			
3-Nitroaniline	330 U	400 U	120 J	130 J			
Acenaphthene	800 U	990 U	990 U	1,000 U			
2,4-Dinitrophenol	330 U	400 U	400 U	400 U			
4-Nitrophenol	330 U	61 J	400 U	80 J			
Dibenzofuran	330 U	400 U	400 U	400 U			
2,4-Dinitrotoluene	330 U	400 U	400 U	400 U			
Diethylphthalate	330 U	400 U	400 U	400 U			
4-Chlorophenyl-phenylether	330 U	400 U	140 J	140 J			
Fluorene	800 U	990 U	990 U	1,000 U			
4-Nitroaniline	800 U	990 U	990 U	1,000 U			
4,6-Dinitro-2-methylphenol	800 U	150 J	330 U	150 J			
N-Nitrosodiphenylamine (1)	330 U	400 U	400 U	400 U			
4-Bromophenyl-phenylether	330 U	400 U	400 U	400 U			
Hexachlorobenzene	330 U	400 U	400 U	400 U			
Pentachlorophenol	800 U	990 U	990 U	1,000 U			
Phenanthrene	330 U	380 J	400 U	380 J			
Anthracene	330 U	41 J	400 U	40 J			
Carbazole	330 U	400 U	400 U	400 U			
Di-n-Butylphthalate	330 U	130 J	400 U	130 J			
Fluoranthene	330 U	180 J	400 U	180 J			
Pyrene	330 U	92 J	400 U	90 J			
Butylbenzylphthalate	330 U	42 J	400 U	40 J			
3,3'-Dichlorobenzidine	330 U	400 U	400 U	400 U			
Benzofluoranthene	330 U	400 U	400 U	400 U			
Benzofluoranthene	330 U	400 U	400 U	400 U			
Benzo(a)pyrene	330 U	400 U	400 U	400 U			
Indeno(1,2,3-cd)pyrene	330 U	400 U	400 U	400 U			
Dibenz(a,h)anthracene	330 U	400 U	400 U	400 U			
Benzo(g,h,i)perylene	330 U	400 U	400 U	400 U			

Non-Target Semivolatile Organics

Unknown (3.94)	310 J	590 JB	600 JB				
2-Pentanonc, 4-hydroxy-4-methyl (4.35)	8,000 NA	34,000 JNAB	33,865 JNAB			negate	1
Unknown (17.16)	ND	420 J	425 J			negate	1
Unknown (20.34)	ND	650 J	655 J				
Unknown (21.73)	ND	1,000 J	1,050 J				

Data Validation Summary Table
For the Santa Road Landfill

Soil TCL Semivolatile Organic Analyses - Method 95-2

Sample Received August 1, 1997

Sample Delivery Group: IRS001

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Dilution of Sample SB4(44-48) (Lab. #: 9723429DL)					
TCL Semivolatile Organics (Diluted 2X)					
Phenol	330 U	790 U	800 U	J	quality 72
bis(2-Chloroethyl)Ether	330 U	790 U	800 U	J	quality 72
2-Chlorophenol	330 U	790 U	800 U	J	quality 72
1,3-Dichlorobenzene	330 U	790 U	800 U	J	quality 72
1,4-Dichlorobenzene	330 U	790 U	800 U	J	quality 72
1,2-Dichlorobenzene	330 U	790 U	800 U	J	quality 72
2-Methylphenol	330 U	790 U	800 U	J	quality 72
bis(2-Chloroisopropyl)ether	330 U	790 U	800 U	J	quality 72
4-Methylphenol	330 U	790 U	800 U	J	quality 72
N-Nitroso-di-n-propylamine	330 U	790 U	800 U	J	quality 72
Hexachloroethane	330 U	790 U	800 U	J	quality 72
Nitrobenzene	330 U	790 U	800 U	J	quality 72
Isophorone	330 U	790 U	800 U	J	quality 72
2-Nitrophenol	330 U	790 U	800 U	J	quality 72
2,4-Dimethylphenol	330 U	790 U	800 U	J	quality 72
bis(2-Chloroethoxy)methane	330 U	790 U	800 U	J	quality 72
2,4-Dichlorophenol	330 U	790 U	800 U	J	quality 72
1,2,4-Trichlorobenzene	330 U	790 U	800 U	J	quality 72
Naphthalene	330 U	790 U	800 U	J	quality 72
4-Chloroaniline	330 U	790 U	800 U	J	quality 72
Hexachlorobutadiene	330 U	790 U	800 U	J	quality 72
4-Chloro-3-methylphenol	330 U	96 JD	100 JD	J	quality 72
2-Methylnaphthalene	330 U	790 U	800 U	J	quality 72
Hexachlorocyclopentadiene	330 U	790 U	800 U	J	quality 72
2,4,6-Trichlorophenol	800 U	2,000 U	2,000 U	J	quality 72
2,4,5-Trichlorophenol	330 U	790 U	800 U	J	quality 72
2-Chloronaphthalene	330 U	2,000 U	2,000 U	J	quality 72
2-Nitroaniline	330 U	790 U	800 U	J	quality 72
Dimethylphthalate	330 U	790 U	800 U	J	quality 72
Acenaphthylene	330 U	790 U	800 U	J	quality 72
2,6-Dinitrotoluene	330 U	790 U	800 U	J	quality 72
3-Nitroaniline	800 U	2,000 U	2,000 U	J	quality 72
Acenaphthene	330 U	120 JD	120 JD	J	quality 72
2,4-Dinitrophenol	800 U	2,000 U	2,000 U	J	quality 72
4-Nitrophenol	330 U	790 U	800 U	J	quality 72
Dibenzofuran	330 U	790 U	800 U	J	quality 72
2,4-Dinitrotoluene	330 U	790 U	800 U	J	quality 72
Diethylphthalate	330 U	790 U	800 U	J	quality 72
4-Chlorophenyl-phenylether	330 U	130 JD	140 JD	J	quality 72
Fluorene	330 U	2,000 U	2,000 U	J	quality 72
4-Nitroaniline	800 U	2,000 U	2,000 U	J	quality 72
4,6-Dinitro-2-methylphenol	330 U	170 JD	160 JD	J	quality 72
N-Nitrosodiphenylamine (1)	330 U	790 U	800 U	J	quality 72
4-Bromophenyl-phenylether	330 U	790 U	800 U	J	quality 72
Hexachlorobenzene	330 U	2,000 U	2,000 U	J	quality 72
Pentachlorophenol	330 U	340 JD	340 JD	J	quality 72
Phenanthrene	330 U	790 U	800 U	J	quality 72
Anthracene	330 U	790 U	800 U	J	quality 72
Carbazole	330 U	790 U	800 U	J	quality 72
Di-n-Butylphthalate	330 U	130 JD	140 JD	J	quality 72
Fluoranthene	330 U	190 JD	200 JD	J	quality 72
Pyrene	330 U	96 JD	100 JD	J	quality 72
Butylbenzylphthalate	330 U	790 U	800 U	J	quality 72
3,3'-Dichlorobenzidine	330 U	790 U	800 U	J	quality 72
Benzo(k)fluoranthene	330 U	790 U	800 U	J	quality 72
Benzo(a)pyrene	330 U	790 U	800 U	J	quality 72
Indeno(1,2,3-cd)pyrene	330 U	790 U	800 U	J	quality 72
Dibenz(a,h)anthracene	330 U	790 U	800 U	J	quality 72
Benzo(g,h,i)perylene	330 U	790 U	800 U	J	quality 72
Non-Target Semivolatile Organics					
Unknown (3.93)	310 J	1,100 JBD	600 JBD	B	negate 1,72
2-Pentanone, 4-hydroxy-4-methyl (4.30)	8,000 NA	45,000 JINABD	33,865 JNAB	B	negate 1,72
Unknown (20.34)	ND	560 JD	655 JD		quality 72
Unknown (21.27)	ND	500 JD	1,050 JD		quality 72
Unknown (21.72)	ND	950 JD	1,050 JD		quality 72

% Moisture = 15.9

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Soil Semivolatile Organic Analyses - Method 95-2

Sample Received: August 15, 1997

Sample Delivery Group: IRS003

Laboratory Reference Numbers:

SB-4 (44-46)	9723439
SB-4 (44-46)DL	9723439DL
SB-4 (44-46)MS	9723439MS
SB-4 (44-46)MSD	9723439MSD

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY**
(Page 1 of 2)

Instrument ID: H5972

Tune File ID: C05211.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: C05212.D

Date: 08/21/97

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Associated Samples: SBLK01, MSB(8/18), SB4(44-46), SB4(44-46)MS, SB4(44-46)DL, SB4(44-46)MSD

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<20.5	>0.800	Acenaphthene *	<20.5	>0.800
bis(2-Chloroethyl)Ether *	<20.5	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<20.5	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<20.5	>0.600	Dibenzofuran *	<20.5	>0.800
1,4-Dichlorobenzene *	<20.5	>0.500	2,4-Dinitrotoluene *	<20.5	>0.200
1,2-Dichlorobenzene *	<20.5	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<20.5	>0.700	4-Chlorophenyl-phenylether *	<20.5	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<20.5	>0.900
4-Methylphenol *	<20.5	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<20.5	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<20.5	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<20.5	>0.200	4-Bromophenyl-phenylether *	<20.5	>0.100
Isophorone *	<20.5	>0.400	Hexachlorobenzene *	<20.5	>0.100
2-Nitrophenol *	<20.5	>0.100	Pentachlorophenol *	<20.5	>0.050
2,4-Dimethylphenol *	<20.5	>0.200	Phenanthrene *	<20.5	>0.700
bis(2-Chloroethoxy)methane *	<20.5	>0.1000	Anthracene *	<20.5	>0.700
2,4-Dichlorophenol *	<20.5	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<20.5	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<20.5	>0.700	Fluoranthene *	<20.5	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<20.5	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<20.5	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<20.5	>0.400	Benzo(a)anthracene *	<20.5	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<20.5	>0.700
2,4,6-Trichlorophenol *	<20.5	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<20.5	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<20.5	>0.800	Benzo(b)fluoranthene *	<20.5	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<20.5	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<20.5	>0.700
Acenaphthylene *	<20.5	>0.1000	Indeno(1,2,3-cd)pyrene *	<20.5	>0.500
2,6-Dinitrotoluene *	<20.5	>0.200	Dibenz(a,h)anthracene *	<20.5	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<20.5	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<20.5	>0.700			
Terphenyl-d14 *	<20.5	>0.500			
Phenol-d5 *	<20.5	>0.800			
2-Fluorophenol *	<20.5	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<20.5	>0.80			
1,2-Dichlorobenzene-d4 *	<20.5	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

Footnote:

All Compounds %RSD < QC Limit: yes

Footnote:

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY
(Page 2 of 2)**

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

Compound:	2-Methylnaphthalene	Chrysene
PPB		
20	$26781/71296 * 2.000 = 0.751$	$24518/41426 * 2.000 = 1.184$
50	$74135/74940 * 0.800 = 0.791$	$91027/59474 * 0.800 = 1.224$
80	$101015/71850 * 0.500 = 0.703$	$141792/62089 * 0.500 = 1.142$
120	$195505/73925 * 0.333 = 0.881$	$281518/62102 * 0.333 = 1.510$
160	$250226/72803 * 0.250 = 0.859$	$392007/63812 * 0.250 = 1.536$
AV. RRF = 0.797	%RSD = 9.3%	AV. RRF = 1.319 %RSD = 14.3%

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**
(page 1 of 2)

Instrument ID: H5972

Tune File ID: C05237.D

Calibration File ID: C05238.D

Initial Calibration File ID: C05212.D

Associated Samples: SBLK01, MSB(8/18)

Acceptable: yes

Date: 08/21/97

Date: 08/25/97

Time Requirements Met: yes

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TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	30%	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: no

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Pyrene
PPB

Hexachloroethane

50 99211/52283 * 0.800 = 1.518

20097/24881 * 0.800 = 0.646

PERCENT DIFFERENCE:

$$(1.721 - 1.518) / 1.721 * 100 = 11.795468$$

$$(0.673 - 0.646) / 0.673 * 100 = 4.011887$$

METHOD BLANK: SBLK01 (Page 112)

Compound	ppb	<CRDL
Unknown (3.64)	77J	NA
Unknown (3.93)	310J	NA
2-Pentanone, 4-hydroxy-4-methyl (4.27)	8000J	NA

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5972

Tune File ID: C05264.D

Calibration File ID: C05265.D

Initial Calibration File ID: C05212.D

Associated Samples: SB4(44-46), SB4(44-46)MS, SB4(44-46)DL

Acceptable: yes

Date: 08/26/97

Date: 08/21/97

Time Requirements Met: yes

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TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Acenaphthene
PPB

Benzo(k)fluoranthene

50 84457/55480 * 0.800 = 1.218

92148/65639 * 0.800 = 1.123

PERCENT DIFFERENCE:

$$(1.250 - 1.218) / 1.250 * 100 = 2.56$$

$$(1.334 - 1.123) / 1.334 * 100 = 15.817091$$

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5972

Tune File ID: C05288.D

Calibration File ID: C05289.D

Initial Calibration File ID: C05212.D

Associated Samples: SB4(44-46)MSD

Acceptable: yes

Date: 08/27/97

Date: 08/21/97

Time Requirements Met: yes

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TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<25.0	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<25.0	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<25.0	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<25.0	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<25.0	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<25.0	>0.010
Hexachloroethane *	<25.0	>0.300	N-Nitrosodiphenylamine	<25.0	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.300	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<25.0	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<25.0	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<25.0	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<25.0	>0.010	Butylbenzylphthalate	<25.0	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<25.0	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<25.0	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<25.0	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<25.0	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<30.0	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<25.0	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>1.300	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<25.0	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<25.0	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.600			
2,4,6-Tribromophenol	<25.0	>0.010			
2-Chlorophenol-d4 *	<25.0	>0.800			
1,2-Dichlorobenzene-d4 *	<25.0	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 2 of 2)**

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: 1,2,4-Trichlorobenzene
PPB

Fluoranthene

50 39169/80604 * 0.800 = 0.389

100315/80448 * 0.800 = 0.998

PERCENT DIFFERENCE:

$$(0.404 - 0.389) / 0.404 * 100 = 3.712871$$

$$(1.300 - 0.998) / 1.300 * 100 = 23.230769$$

Holding Times

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

All surrogate recoveries were within the required quality assurance limits.

Matrix Spike

Sample SB-4 (44-46) (Lab. #: 9723439) was used as the matrix spike. All recoveries and RPDs were within the acceptable limits.

Blank Spike

All of the blank spike recoveries were within the acceptable limits.

Initial Calibrations

No problems were found with any of the initial calibrations.

Analyte Resolution

All percent resolutions were greater than 60% on both the RTX-5 and RTX-35 columns.

Performance Evaluation Mixtures

Several minor problems with resolution were found between gamma-BHC and beta-BHC (98%) in three of the six PEM standards. The NYS DEC ASP program requires that the resolution between all compounds in this standard be 100% (page E-89).

Only the TCL compounds which were part of the PEM mixture were found in the raw data. The DT and endrin breakdown products were not included in this listing. The laboratory has been requested to provide a full printout of the raw data of all of the standards in any future reports.

No other problems were found with any of the performance evaluation mixtures.

Continuing Calibrations - IND A & IND B

FORM VII for INDAM02 was not found in the analytical report for either of the two columns. All of the quality assurance data was verified from the raw data and no problems were found.

The RTX-35 column raw data was not found for INDAM02. This has been not been requested from the laboratory since only the blank spike was bracketed by this standard.

All percent resolutions were greater than 90% on both the DB-608 and DB-1701 columns.

No other problems were detected with the continuing calibrations.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

Florisil Cartridge Check

All recoveries were within the 80% - 120% quality assurance limits.

The florisil cartridge check was performed on 1/20/97.

GPC Calibration

All of the GPC summary data were within the acceptable limits.

Method Blanks

No compounds were detected in the method blank.

Calibration Blanks

No compounds were detected in any of the calibration blank.

Field Blanks

Field blanks were not collected with this sample delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

Sample Results

No problems were detected with any of the samples.

Data Validation Summary Table
For the Sonia Road Landfill

Soil Pesticide and PCB Analyses
Sample Received August 15, 1997
Sample Delivery Group: IRS003

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	
Sample SB4 (Lab. #: 9723439)				
Pesticides & PCBs				
alpha-BHC	1.7 U	2.0 U	2.0 U	
beta-BHC	1.7 U	2.0 U	2.0 U	
delta-BHC	1.7 U	2.0 U	2.0 U	
gamma-BHC (Lindane)	1.7 U	2.0 U	2.0 U	
Heptachlor	1.7 U	2.0 U	2.0 U	
Aldrin	1.7 U	2.0 U	2.0 U	
Heptachlor Epoxide	1.7 U	1.1 JP	1.1 JP	
Endosulfan I	1.7 U	2.0 U	2.0 U	
Dieldrin	3.3 U	3.9 U	3.9 U	
4,4'-DDE	3.3 U	3.9 U	3.9 U	
Endrin	3.3 U	3.9 U	3.9 U	
Endosulfan II	3.3 U	3.9 U	3.9 U	
4,4' - DDD	3.3 U	47	47	
Endosulfan Sulfate	3.3 U	3.9 U	3.9 U	
4,4'-DDT	3.3 U	3.9 U	3.9 U	
Methoxychlor	17.0 U	20 U	20 U	
Endrin Ketone	3.3 U	3.9 U	3.9 U	
Endrin Aldehyde	3.3 U	3.9 U	3.9 U	
alpha-Chlordane	1.7 U	2.6	2.6	
gamma-Chlordane	1.7 U	2.4 P	2.4 P	
Toxaphene	170 U	200 U	200 U	
Aroclor-1016	33 U	39 U	39 U	
Aroclor-1221	67 U	80 U	80 U	
Aroclor-1232	33 U	39 U	39 U	
Aroclor-1242	33 U	39 U	39 U	
Aroclor-1248	33 U	39 U	39 U	
Aroclor-1254	33 U	39 U	39 U	
Aroclor-1260	33 U	39 U	39 U	

% Moisture = 15.9

Untitrated

Sample SB4 Matrix Spike											
Page: 914			Date:			Time:			Sheet5		
% Moisture = 15.9											
Calc.		Calc.	RT Window #1				RT Window #2				
Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2	
alpha-BHC	0.5043	0.000	8.75	8.85	8.76	4,954	11.04	11.14			
beta-BHC	0.0000	0.000	9.58	9.68			12.68	12.78			
delta-BHC	0.0000	0.000	10.53	10.63			13.94	14.04			
gamma-BHC (Lindane)	14.0186	13.116	6.65	9.79	9.89	9.84	134,225	12.41	12.51	12.46	196,397
Heptachlor	15.4507	14.592	5.7	12.07	12.17	12.13	139,485	13.80	13.90	13.85	202,046
Aldrin	15.0640	14.062	6.9	13.21	13.31	13.27	122,277	14.77	14.87	14.82	168,454
Heptachlor Epoxide	3.0341	1.106	93.2	14.41	14.55	14.43	23,091	16.12	16.26	16.22	11,854
Endosulfan I	6.0381	4.677	25.4 X	15.29	15.43	15.42	40,146	17.06	17.20	17.07	44,076
Dieldrin	31.9432	27.303	15.7	15.91	16.05	15.99	227,537	17.82	17.96	17.89	268,627
4,4'- DDE	2.3441	4.128	-55.1	15.80	15.94	15.87	16,456	17.55	17.69	17.61	41,174
Endrin	36.0566	36.170	-0.3	16.45	16.59	16.52	205,821	18.71	18.85	18.78	227,006
Endosulfan II	1.0586	0.000	200.0	16.66	16.80	16.67	6,555	19.18	19.32		
4,4' - DDD	27.1086	26.060	3.9	16.80	16.94	16.87	146,869	18.96	19.10	19.03	206,979
Endosulfan Sulfate	1.0363	0.000	200.0	17.59	17.83	17.63	5,748	20.40	20.54		
4,4'-DDT	26.6199	31.621	-17.5	17.71	17.85	17.78	157,335	19.79	19.93	19.86	257,553
Methoxychlor	0.0000	0.388	-200.0	19.07	19.23			21.89	22.03	21.96	1,470
Endrin Ketone	1.0023	0.537	60.5 <	18.89	19.03	18.94	6,940	22.33	22.47	22.4	4,520
Endrin Aldehyde	0.5452	1.011	-59.9 <	17.12	17.26	17.22	2,867	19.97	20.11	20.07	6,551
alpha-Chlordane	5.4332	4.163	26.5	15.34	15.48	15.42	40,146	17.00	17.14	17.07	44,076
gamma-Chlordane	7.2113	5.433	28.1	14.98	15.12	15.06	57,767	16.61	16.75	16.68	60,447
TCX	62.2	60.1		7.51	7.61	7.57	72,285	8.65	8.75	8.7	137,038
DCB	76.8	79.6		23.56	23.76	23.66	83,196	26.33	26.53	26.43	89,866
Sample SB4											
Page: 914			Date:			Time:					
% Moisture = 15.9											
Calc.		Calc.	RT Window #1				RT Window #2				
Amt. #1	Amt. #2	RPD	From	To	RT1	Resp 1	From	To	RT2	Resp 2	
alpha-BHC	0.4296	0.000	8.75	8.85	8.75	4,221	11.04	11.14			
beta-BHC	0.0000	0.000	9.58	9.68			12.68	12.78			
delta-BHC	0.0000	0.000	10.53	10.63			13.94	14.04			
gamma-BHC (Lindane)	0.0000	13.116	####	9.79	9.89			12.41	12.51	12.46	196,397
Heptachlor	0.8236	14.592	-178.6 <	12.07	12.17	12.14	7,435	13.80	13.90	13.85	202,046
Aldrin	0.7893	14.062	-178.7 <	13.21	13.31	13.28	6,407	14.77	14.87	14.82	168,454
Heptachlor Epoxide	7.8020	1.106	150.3	14.41	14.55	14.43	59,377	16.12	16.26	16.22	11,854
Endosulfan I	0.5138	4.677	-160.4 <	15.29	15.43	15.33	3,416	17.06	17.20	17.07	44,076
Dieldrin	0.0000	27.303	-200.0	15.91	16.05			17.82	17.96	17.89	268,627
4,4'- DDE	1.3485	4.128	-101.5 <	15.80	15.94	15.87	9,467	17.55	17.69	17.61	41,174
Endrin	1.4356	36.170	-184.7 <	16.45	16.59	16.53	8,195	18.71	18.85	18.78	227,006
Endosulfan II	0.8645	0.000	200.0	16.66	16.80	16.66	5,353	19.18	19.32		
4,4' - DDD	51.6223	46.881	9.4	16.80	16.94	16.87	279,679	18.96	19.10	19.03	373,147
Endosulfan Sulfate	1.9246	0.000	200.0	17.59	17.83	17.63	10,675	20.40	20.54		
4,4'-DDT	0.0000	31.621	-200.0	17.71	17.85			19.79	19.93	19.86	257,553
Methoxychlor	0.0000	0.388	-200.0	19.07	19.23			21.89	22.03	21.96	1,470
Endrin Ketone	1.1087	0.537	69.5 <	18.89	19.03	18.93	7,677	22.33	22.47	22.4	4,520
Endrin Aldehyde	0.5184	1.011	-64.4 <	17.12	17.26	17.22	2,726	19.97	20.11	20.07	6,551
alpha-Chlordane	2.6950	2.567	4.9	15.34	15.48	15.42	19,913	17.00	17.14	17.07	27,175
gamma-Chlordane	4.9909	2.448	68.4	14.98	15.12	15.05	39,980	16.61	16.75	16.68	27,237
TCX	59.3	60.1		7.51	7.61	7.57	68,895	8.65	8.75	8.7	137,038
DCB	78.2	79.6		23.56	23.76	23.66	84,667	26.33	26.53	26.43	89,866

INDAM02																										
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Raw Data	Page:	108	Date:	8/31/97	Time:	9:20	pm	Sheet	2																	
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						Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2										
		RTX-6	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2					
alpha-BHC	8.81			77,637		0.0399	0.0400	0.31	OK	0.000	0.0200	100.00	OUT	8.75	8.85		11.04	11.14		1,946,973	3,279,339					
beta-BHC														9.58	9.68		12.68	12.78		1,059,208	1,780,533					
delta-BHC														10.53	10.63		13.94	14.04		1,742,817	2,672,328					
gamma-BHC (Lindane)	9.84			78,443		0.0413	0.0400	-3.35	OK	0.000	0.0200	100.00	OUT	9.79	9.89		12.41	12.51		1,897,495	2,967,361					
Heptachlor	12.13			72,332		0.0404	0.0400	-1.07	OK	0.000	0.0200	100.00	OUT	12.07	12.17		13.80	13.90		1,789,084	2,744,059					
Aldrin														13.21	13.31		14.77	14.87		1,608,635	2,373,998					
Heptachlor Epoxide														14.41	14.55		16.12	16.26		1,508,230	2,124,268					
Endosulfan I	15.36			51,450		0.0390	0.0400	2.38	OK	0.000	0.0200	100.00	OUT	15.29	15.43		17.06	17.20		1,317,631	1,867,571					
Dieldrin	15.99			111,959		0.0793	0.0800	0.86	OK	0.000	0.0400	100.00	OUT	15.91	16.05		17.82	17.96		1,411,648	1,949,787					
4,4'- DDE														15.80	15.94		17.55	17.69		1,391,251	1,976,821					
Endrin	16.52			89,308		0.0789	0.0800	1.32	OK	0.000	0.0400	100.00	OUT	16.45	16.59		18.71	18.85		1,131,247	1,243,768					
Endosulfan II														16.66	16.80		19.18	19.32		1,227,139	1,634,033					
4,4' - DDD	16.88			85,680		0.0798	0.0800	0.25	OK	0.000	0.0400	100.00	OUT	16.80	16.94		18.96	19.10		1,073,681	1,574,019					
Endosulfan Sulfate														17.59	17.83		20.40	20.54		1,099,190	1,504,579					
4,4'-DDT	17.78			93,962		0.0799	0.0800	0.10	OK	0.000	0.0400	100.00	OUT	17.71	17.85		19.79	19.93		1,175,728	1,614,147					
Methoxychlor	19.17			241,243		0.4320	0.4000	-7.99	OK	0.000	0.2000	100.00	OUT	19.07	19.23		21.89	22.03		558,491	750,528					
Endrin Ketone														18.89	19.03		22.33	22.47		1,372,226	1,669,053					
Endrin Aldehyde														17.12	17.26		19.97	20.11		1,042,116	1,284,142					
alpha-Chlordane														15.34	15.48		17.00	17.14		1,464,324	2,098,110					
gamma-Chlordane														14.98	15.12		16.61	16.75		1,587,524	2,204,963					
TCX	7.57			58,077		0.0400	0.0400	0.00	OK	0.000	0.0200	100.00	OUT	7.51	7.61		8.65	8.75		1,451,884	2,849,628					
DCB	23.66			110,824		0.0819	0.0800	-2.35	OK	0.000	0.0400	100.00	OUT	23.56	23.76		26.33	26.53		1,353,454	1,411,703					
INDBM02																										
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Raw Data	Page:	110	Date:	8/31/97	Time:	9:58	pm																			
Form VII	Page:	46																								
Raw Data	Page:																									
						Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2										
		RTX-6	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2					
alpha-BHC														8.75	8.85		11.04	11.14		1,946,973	3,279,339					
beta-BHC	9.63	12.74		38,943		0.0368	0.0400	8.08	OK	0.000	0.0200	100.00	OK	9.58	9.68		12.68	12.78		1,059,208	1,780,533					
delta-BHC	10.58	13.99		67,466		0.0387	0.0400	3.22	OK	0.000	0.0200	100.00	OK	10.53	10.63		13.94	14.04		1,742,817	2,672,328					
gamma-BHC (Lindane)														9.79	9.89		12.41	12.51		1,897,495	2,967,361					
Heptachlor														12.07	12.17		13.80	13.90		1,789,084	2,744,059					
Aldrin	13.27	14.82		60,786		0.0378	0.0400	5.53	OK	0.000	0.0200	100.00	OK	13.21	13.31		14.77	14.87		1,608,635	2,373,998					
Heptachlor Epoxide	14.49	16.20		57,161		0.0379	0.0400	5.25	OK	0.000	0.0200	100.00	OK	14.41	14.55		16.12	16.26		1,508,230	2,124,268					
Endosulfan I														15.29	15.43		17.06	17.20		1,317,631	1,867,571					
Dieldrin														15.91	16.05		17.82	17.96		1,411,648	1,949,787					
4,4'- DDE	15.87	17.63		105,509		0.0758	0.0800	5.20	OK	0.000	0.0400	100.00	OK	15.80	15.94		17.55	17.69		1,391,251	1,976,821					
Endrin														16.45	16.59		18.71	18.85		1,131,247	1,243,768					
Endosulfan II	16.74	19.26		94,414		0.0769	0.0800	3.83	OK	0.000	0.0400	100.00	OK	16.66	16.80		19.18	19.32		1,227,139	1,634,033					
4,4' - DDD														16.80	16.94		18.96	19.10		1,073,681	1,574,019					
Endosulfan Sulfate	17.77	20.47		89,109		0.0811	0.0800	-1.33	OK	0.000	0.0400	100.00	OK	17.59	17.83		20.40	20.54		1,099,190	1,504,579					
4,4'-DDT														17.71	17.85		19.79	19.93		1,175,728	1,614,147					
Methoxychlor														19.07	19.23		21.89	22.03		558,491	750,528					
Endrin Ketone	18.96	22.40		107,816		0.0786	0.0800	1.79	OK	0.000	0.0400	100.00	OK	18.89	19.03		22.33	22.47		1,372,226	1,669,053					
Endrin Aldehyde	17.19	20.02		77,934		0.0748	0.0800	6.52	OK	0.000	0.0400	100.00	OK	17.12	17.26		19.97	20.11		1,042,116	1,284,142					
alpha-Chlordane	15.42	17.07		55,121		0.0376	0.0400	5.89	OK	0.000	0.0200	100.00	OK	15.34	15.48		17.00	17.14		1,464,324	2,098,110					
gamma-Chlordane	15.06	16.68		59,840		0.0377	0.0400	5.77	OK	0.000	0.0200	100.00	OK	14.98	15.12		16.61	16.75		1,587,524	2,204,963					
TCX	7.57	8.71		56,941		0.0392	0.0400	1.95	OK	0.000	0.0200	100.00	OK	7.51	7.61		8.65	8.75		1,451,884	2,849,628					
DCB	23.66	26.44		106,255		0.0785	0.0800	1.87	OK	0.000	0.0400	100.00	OK	23.56	23.76		26.33	26.53		1,353,454	1,411,703					

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Initial Calibration																	
Sheet1																	
INDAL																	
Page: 91		Date: 9/3/97		Time: 2:35													
								RTX-35				RTX-5		RTX-35			
								#1 Calc.									
								Cal. Fac.		Conc.		R/C					
								Cal. Fac.		Conc.		R/C		From To OK		From To OK	

Initial Calibration					
Sheet1					
INDAM					
Page: 95 Date: Time:					
RTX-35 RTX-5 RTX-35 #1 Calc.					
Cal. Fac. Conc. R/C Cal. Fac. Conc. R/C RT Window #1 RT Window #2 CF 1 CF 2					
From To OK From To OK					
alpha-BHC 0 0.0200 0.00 0 0.0200 0.00 8.75 8.85 11.04 11.14 1,946,973 3,279,339					
beta-BHC 0 0.0200 0.00 0 0.0200 0.00 9.58 9.68 12.68 12.78 1,059,208 1,780,533					
delta-BHC 0 0.0200 0.00 0 0.0200 0.00 10.53 10.63 13.94 14.04 1,742,817 2,672,328					
gamma-BHC (Lindane) 0 0.0200 0.00 0 0.0200 0.00 9.79 9.89 12.41 12.51 1,897,495 2,967,361					
Heptachlor 0 0.0200 0.00 0 0.0200 0.00 12.07 12.17 13.80 13.90 1,789,084 2,744,059					
Aldrin 0 0.0200 0.00 0 0.0200 0.00 13.21 13.31 14.77 14.87 1,608,635 2,373,998					
Heptachlor Epoxide 0 0.0200 0.00 0 0.0200 0.00 14.41 14.55 16.12 16.26 1,508,230 2,124,268					
Endosulfan I 0 0.0200 0.00 0 0.0200 0.00 15.29 15.43 17.06 17.20 1,317,631 1,867,571					
Dieldrin 0 0.0400 0.00 0 0.0400 0.00 15.91 16.05 17.82 17.96 1,411,648 1,949,787					
4,4'- DDE 0 0.0400 0.00 0 0.0400 0.00 15.80 15.94 17.55 17.69 1,391,251 1,976,821					
Endrin 0 0.0400 0.00 0 0.0400 0.00 16.45 16.59 18.71 18.85 1,131,247 1,243,768					
Endosulfan II 0 0.0400 0.00 0 0.0400 0.00 16.66 16.80 19.18 19.32 1,227,139 1,634,033					
4,4' -DDD 0 0.0400 0.00 0 0.0400 0.00 16.80 16.94 18.96 19.10 1,073,681 1,574,019					
Endosulfan Sulfate 17.78 19.86 94,058 129,132 1,175,725 0.0400 1.00 1,614,150 0.0400 1.00 17.59 17.83 20.40 20.54 1,099,190 1,504,579					
4,4'-DDT 17.78 19.86 94,058 129,132 1,175,725 0.0400 1.00 1,614,150 0.0400 1.00 17.71 17.85 19.79 19.93 1,175,728 1,614,147					
Methoxychlor 19.16 21.96 223,397 300,211 558,493 0.2000 1.00 750,528 0.2000 1.00 19.07 19.23 21.89 22.03 558,491 750,528					
Endrin Ketone 18.89 19.03 22.33 22.47 1,372,226 1,669,053					
Endrin Aldehyde 17.12 17.26 19.97 20.11 1,042,116 1,284,142					
alpha-Chlordane 15.34 15.48 17.00 17.14 1,464,324 2,098,110					
gamma-Chlordane 14.98 15.12 16.61 16.75 1,587,524 2,204,963					
TCX 0 0.0200 0.00 0 0.0200 0.00 7.51 7.61 8.65 8.75 1,451,884 2,849,628					
DCB 0 0.0400 0.00 0 0.0400 0.00 23.56 23.76 26.33 26.53 1,353,454 1,411,703					
INDBM					
Page: 97 Date: Time:					
RTX-35 RTX-5 RTX-35 #1 Calc.					
Cal. Fac. Conc. R/C Cal. Fac. Conc. R/C RT Window #1 RT Window #2 CF 1 CF 2					
From To OK From To OK					
alpha-BHC 0 0.0200 0.00 0 0.0200 0.00 8.75 8.85 11.04 11.14 1,946,973 3,279,339					
beta-BHC 0 0.0200 0.00 0 0.0200 0.00 9.58 9.68 12.68 12.78 1,059,208 1,780,533					
delta-BHC 0 0.0200 0.00 0 0.0200 0.00 10.53 10.63 13.94 14.04 1,742,817 2,672,328					
gamma-BHC (Lindane) 0 0.0200 0.00 0 0.0200 0.00 9.79 9.89 12.41 12.51 1,897,495 2,967,361					
Heptachlor 0 0.0200 0.00 0 0.0200 0.00 12.07 12.17 13.80 13.90 1,789,084 2,744,059					
Aldrin 0 0.0200 0.00 0 0.0200 0.00 13.21 13.31 14.77 14.87 1,608,635 2,373,998					
Heptachlor Epoxide 0 0.0200 0.00 0 0.0200 0.00 14.41 14.55 16.12 16.26 1,508,230 2,124,268					
Endosulfan I 0 0.0200 0.00 0 0.0200 0.00 15.29 15.43 17.06 17.20 1,317,631 1,867,571					
Dieldrin 0 0.0400 0.00 0 0.0400 0.00 15.91 16.05 17.82 17.96 1,411,648 1,949,787					
4,4'- DDE 0 0.0400 0.00 0 0.0400 0.00 15.80 15.94 17.55 17.69 1,391,251 1,976,821					
Endrin 0 0.0400 0.00 0 0.0400 0.00 16.45 16.59 18.71 18.85 1,131,247 1,243,768					
Endosulfan II 0 0.0400 0.00 0 0.0400 0.00 16.66 16.80 19.18 19.32 1,227,139 1,634,033					
4,4' -DDD 0 0.0400 0.00 0 0.0400 0.00 16.80 16.94 18.96 19.10 1,073,681 1,574,019					
Endosulfan Sulfate 18.96 22.40 109,778 133,524 1,372,225 0.0400 1.00 1,669,050 0.0400 1.00 17.59 17.83 20.40 20.54 1,099,190 1,504,579					
4,4'-DDT 17.71 17.85 19.79 19.93 1,175,728 1,614,147					
Methoxychlor 19.07 19.23 21.89 22.03 558,491 750,528					
Endrin Ketone 18.89 19.03 22.33 22.47 1,372,226 1,669,053					
Endrin Aldehyde 17.12 17.26 19.97 20.11 1,042,116 1,284,142					
alpha-Chlordane 15.34 15.48 17.00 17.14 1,464,324 2,098,110					
gamma-Chlordane 14.98 15.12 16.61 16.75 1,587,524 2,204,963					
TCMX 0 0.0200 0.00 0 0.0200 0.00 7.51 7.61 8.65 8.75 1,451,884 2,849,628					
DCB 0 0.0400 0.00 0 0.0400 0.00 23.56 23.76 26.33 26.53 1,353,454 1,411,703					

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For Mohonk RI/FS (D002676-25)

Soil TAL Inorganic and Cyanide Analyses

Sample Received: August 15, 1997

Sample Delivery Group: IRS003

Laboratory Reference Numbers:

SB-4 (44-46)	9723439
SB-4 (44-46)MS	9723439MS
SB-4 (44-46)MD	9723439MD

Soil samples were received for TAL metals analyses by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
- * - CRDL Standards
- * - ICP Interference Check Sample
- * - Laboratory Control Sample
- * - Serial Dilutions
- * - Laboratory Blanks
 - Field Blanks
 - Preparation Blanks
- * - Matrix Spike
 - Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
 - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

The minor nonconformances with the matrix duplicate and serial dilutions should be noted by all end users of the data.

No other problems were found which would affect the end use of the data.

Nancy J. Potak
October 17, 1997

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

The recoveries of all CRDL standards in the first set were within the 80% to 120% quality assurance limits.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

The concentration of zinc reported in the preparation blank (4.02 mg/kg) was greater than the CRDL of 4 mg/kg. This was just over the CRDL limit and the data reported for zinc in the sample (54 mg/kg) were greater than 10X the concentration in the method blank. The data were not qualified in the data validation summary table.

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

All of the traditional furnace analytes which were analyzed by ICP were also included in solution AB.

Matrix Spike Recovery

Sample SB-4 (44-46) (Lab. #: 9723439) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte. All recoveries were within the acceptable limits (75% - 125%).

Some of the matrix spikes were not added at the NYS DEC ASP required levels.

Duplicate Analysis

Sample SB-4 (44-46) (Lab. #: 9723439) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCL analyte list with the exceptions of mercury and cyanide. All recoveries which could be calculated were within the acceptable limits with the following exceptions:

Analyte	MD RPD	Qualifier
Aluminum	52%	45
Calcium	83%	45
Copper	109%	43
Iron	48%	45
Lead	42%	45
Magnesium	79%	45
Manganese	48%	45

All of the data for these analytes, with the one exception of copper, were flagged with the "J" qualifier and footnoted with #43 in the data validation summary table. The concentrations reported for these analytes should be considered to be estimated values.

The copper data were flagged with the "J" qualifier and footnoted with #45 in the data validation summary table. Although the data for this analyte are not technically rejected according to standard data validation procedures, all of the copper data are highly qualified. It should be noted that only relatively low concentrations of copper (3B mg/kg and 10 mg/kg) were detected in this sample. The high RPD will not likely affect the end use of the data.

Laboratory Control Sample

No problems were detected with the recoveries of the soil LCS standard.

Serial Dilutions

Sample SB-4 (44-46) (Lab. #: 9723439) of this sample delivery group was also used for the serial dilution. All of the percent differences which could be calculated were within the required quality assurance limits with the following exceptions:

Analyte	% Difference
Barium	35%
Sodium	36%

The concentrations of both of these analytes in the were very low and these high percent differences are not likely to affect the end use of the data. The data for these analytes were flagged with the "J" qualifier and footnoted with #51 in the data validation summary table.

Instrument Detection Limit

No problems with the instrument detection limits were found.

ICP Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

No problems, aside from those noted above, were found with any of the reported sample data.

**Data Validation Summary Table
For the Sonia Road Landfill**

Soil TAL Inorganic Analyses

Sample Received August 16, 1997

Sample Delivery Group: IRS003

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample SB-4(44-48) (Lab. #: 9723439)					
		% Solids = 84.1			
Aluminum	4.540 B	640.00 *	640.19 *	J	qualify 45
Antimony	0.600 U	0.71 U	0.75 U		
Arsenic	0.480 U	0.92 B	0.96 B		
Barium	0.670 B	3.80 BE	3.95 BE	J	qualify 51
Beryllium	0.330 B	0.08 B	0.10 B		
Cadmium	0.600 U	0.13 B	0.12 B		
Calcium	36.027 B	2,200.00 *	2,298.14 *	J	qualify 45
Chromium	0.193 B	1.30 B	1.39 B		
Cobalt	0.220 B	0.58 B	0.60 B		
Copper	0.553 B	3.00 B*	3.16 B*	J	qualify 43
Iron	1.687 B	1,510.00 *	1,576.65 *	J	qualify 45
Lead	0.200 U	9.70 *	10.10 *	J	qualify 45
Magnesium	3.640 B	1,180.00 B*	1,232.55 B*	J	qualify 45
Manganese	0.670 B	11.70 *	12.25 *	J	qualify 45
Mercury	0.050 U	0.06 U	0.06 U		
Nickel	0.273 B	6.70 B	7.03 B		
Potassium	5.807 B	76.90 B	80.35 B		
Selenium	0.560 U	0.83 B	0.87 B		
Silver	1.082 B	1.30 B	1.33 B		
Sodium	3.633 B	34.60 BE	36.10 BE	J	qualify 51
Thallium	0.520 U	0.62 U	0.65 U		
Vanadium	0.240 U	1.40 B	1.44 B		
Zinc	4.020	53.90	56.27		
Cyanide	0.500 U	0.59 U	0.62 U		

SUMMARY OF THE ANALYTICAL DATA VALIDATION For the Sonia Road Landfill

New York State Department of Environmental Conservation Data Validation Summary Form

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # in CLP	Non Compliance
IRS004	8/26/97	95	GW-H1-08(93')	W	*	NA	NA	NA	NA	B-5	IDLs >6 months old
IRS004	8/29/97	95	GW-H2-03(43')	W	*	NA	NA	NA	NA	B-5	IDLs >6 months old

* - IDL's were analyzed beyond the 6 month time limit.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill

Water Volatile Organic Analyses - Method 95-1

Samples Received: August 26 & 29, 1997

Sample Delivery Group: IRS004

Laboratory Reference Numbers:

GW-H1-08(93')

9724540

GW-H2-03(43')

9724988

Water samples were received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
 - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

No other problems were found with the analyses of this sample which would affect the end use of the data.


Nancy J. Potak
October 1, 1997

Holding Time

The samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were found with either of the two initial calibrations associated with the analysis of the samples.

The percent difference of bromomethane (37%) was above the 25% quality assurance limit in the first continuing calibration associated with the analysis of these samples. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table for sample GW-H1-08 (93'). Bromomethane was not detected in the sample.

The percent difference of 1,1-dichloroethene (28%) was above the 25% quality assurance limit in the second continuing calibration associated with the analysis of these samples. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table for sample GW-H2-03(43'). 1,1-Dichloroethene was not detected in the sample.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed for the 95-1 analysis of this sample delivery group.

Blank Spike

A blank spike was not analyzed for the TCL analysis of this sample delivery group.

Method Blank

No volatile compounds were detected in the method blank associated with the analysis of sample GW-H1-08 (93').

Low concentrations of methylene chloride (2J ug/l) and acetone (4J ug/l) were detected in the method blank associated with the analysis of sample GW-H2-03(43'). These were negated according to the standard EPA data validation guidelines.

The data for the method blanks are reported next to the data for the samples in the data validation summary table.

Trip Blank

A trip blank was not analyzed with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 7 months before the analysis of the sample. The NYS DEC ASP protocols require that the instrument detection limits be analyzed within six months of the analyses of the samples.

Sample Results

No problems were found with the reported results of the sample of this delivery group.

**Water TCL Volatile Organic Analyses - Method 95-1
Samples Received August 26 & 29, 1997
Sample Delivery Group: IRS004**

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Santa Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received August 26 & 29, 1997
Sample Delivery Group: IRS004

Sample / Analyte	Method	Blank	Conc.	(PPB)	Lab.	Reported	Conc.	Validation	Reported	Decision	Qualifiers	Footnotes

Sample GW-H2-03 (43) (Lab. #: 9724988) Received 8/29

TCL Volatile Organics	(Undiluted)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Vinyl Chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Methylene Chloride		2 J	4 J	2 JB	2 JB	4 J	7 JB	2 JB	4 J	7 JB	negate	1
Acetone		4 J	1 J	1 J	1 J	1 J	1 J	1 J	1 J	1 J	quality	15
Carbon Disulfide		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
2-Butanone		10 U	4 J	4 J	4 J	4 J	4 J	4 J	4 J	4 J		
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Carbon Tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Trichloroethene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Benzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Bromoform		10 U	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J		
4-Methyl-2-Pentanone		10 U	4 J	4 J	4 J	4 J	4 J	4 J	4 J	4 J		
2-Hexanone		10 U	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J		
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane		10 U	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J		
Toluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Chlorobenzene		10 U	1 J	1 J	1 J	1 J	1 J	1 J	1 J	1 J		
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Styrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Xylene (total)		10 U	1 J	1 J	1 J	1 J	1 J	1 J	1 J	1 J		
Non-Target Volatile Organics												
Propane, 2-methoxy-2-methyl- (4,27)	ND	ND	7 JN	2 J	7 JN	2 J	7 JN	2 J	7 JN	2 J		
Unknown (sus. col. bleed)	ND	ND	7 JN	2 J	7 JN	2 J	7 JN	2 J	7 JN	2 J		

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Water Volatile Organic Analyses - Method 95-1
Samples Received: August 26 & 29, 1997
Sample Delivery Group: IRS004
Laboratory Reference Numbers:

GW-H1-08(93')
GW-H2-03(43')

9724540
9724988

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5971	Level: low - water	
Tune File ID: A14357.D	Acceptable: yes	Time Requirements Met: yes
Initial Calibration File ID: A14358.D	Date: 08/05/97	Page: 40
Associated Samples: VBLK8/29, GWH108(93')		

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300
Surrogates:					
Toluene-d8	<30.0	>0.01			
Bromofluorobenzene *	<20.5	>0.20			
1,2-Dichloroethane-d4	<30.0	>0.01			

All Compounds Average RRF > QC Limit: yes
 All Compounds Average RRF > 0.05: yes
 All Compounds %RSD < QC Limit: yes
 All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Toluene
PPB		
10	12167/34004 * 5.000 = 1.789	46708/148840 * 5.000 = 1.569
20	25462/37124 * 2.500 = 1.715	96660/165114 * 2.500 = 1.464
50	58983/38941 * 1.000 = 1.515	225538/172398 * 1.000 = 1.308
100	119817/39680 * 0.500 = 1.510	459511/173779 * 0.500 = 1.322
200	236697/40766 * 0.250 = 1.452	897721/180168 * 0.250 = 1.246

AV. RRF = 1.596

%RSD = 9.2%

AV. RRF = 1.382

%RSD = 9.5%

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971

Level: low - water

Tune File ID: A14631.D

Acceptable: yes

Time Requirements Met: yes

Calibration File ID: A14633.D

Date: 08/29/97

Page: 104

Initial Calibration File ID: A14358.D

Date: 08/05/97

Page: 40

Associated Samples: VBLK8/29, GWH108(93')

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	37%	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300

Surrogates:

Toluene-d8	<100	>0.01
Bromofluorobenzene *	<25.0	>0.20
1,2-Dichloroethane-d4	<100	>0.01

All Compounds Average RRF >OC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: no

Footnote:

Footnote: 15

CALCULATION VERIFICATION: (RRF = $A_{is}/A_x \cdot C_{is}/C_s$)

COMPOUND:

1,1,1-Trichloroethane

Ethylbenzene

PPB

$$101215/224898 * 1.000 = 0.450$$
$$78819/189408 \cdot 1.000 = 0.416$$

50

%D: $(0.555 - 0.450) / 0.555 * 100 = 18.918919$

$$\%D: (0.528 - 0.416) / 0.528 * 100 = 21.212121$$

METHOD BLANK: VBLK8/29 (Page 118)

Compound

ppb

<CRDL

No compounds were detected in this method blank.

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5996

Level: low - water

Tune File ID: V2448.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: V2449.D

Date: 09/03/97

Page: 62

Associated Samples: VBLK9/4, GWH203(43')

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300
Surrogates:					
Toluene-d8	<30.0	>0.01			
Bromofluorobenzene *	<20.5	>0.20			
1,2-Dichloroethane-d4	<30.0	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes

All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:

PPB

10

20

50

100

200

Chloroform

81241/147087 * 5.000 = 2.762

160961/142401 * 2.500 = 2.826

419114/149497 * 1.000 = 2.803

852783/153793 * 0.500 = 2.773

1696053/157384 * 0.250 = 2.694

1,1,2-Trichloroethane

34559/727937 * 5.000 = 0.237

71377/702405 * 2.500 = 0.254

191473/730229 * 1.000 = 0.262

387796/759616 * 0.500 = 0.255

744188/773938 * 0.250 = 0.240

AV. RRF = 2.772

%RSD = 1.8%

AV. RRF = 0.250

%RSD = 4.2%

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5996

Level: low - water

Tune File ID: V2448.D

Acceptable: yes

Time Requirements Met: yes

Calibration File ID: V2454.D

Date: 09/03/97

Page: 108

Initial Calibration File ID: V2455.D

Date: 09/04/97

Page: 62

Associated Samples: VBLK9/4, GWH203(43')

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	28%	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: no

Footnote:

Footnote: 15

CALCULATION VERIFICATION: (RRF = Ais/Ax * Cis/Cs)

COMPOUND:

Dibromochloromethane

Tetrachloroethene

PPB

50

312304/673335 * 1.000 = 0.464

207130/613884 * 1.000 = 0.337

%D: (0.419 - 0.464) / 0.419 * 100 = -10.739857

%D: (0.346 - 0.337) / 0.346 * 100 = 2.601156

METHOD BLANK: VBLK9/4

(Page 124)

Compound

Methylene Chloride

ppb

2J

<CRDL

10

Acetone

4J

10

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill

New York State Department of Environmental Conservation
Data Validation Summary Form

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # in CLP	Non Compliance
IRS006	9/19/97	95	GW-H407(87')	W	Yes	NA	NA	NA	NA		
IRS006	8/24/97	95	GW-H605(67')	W	.	NA	NA	NA	NA		

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Water Volatile Organic Analyses - Method 95-1
Samples Received: September 19th & 24th, 1997
Sample Delivery Group: IRS006
Laboratory Reference Numbers:

GW-H407(87') (9/19)	9727190
GW-H605(67') (9/24)	9727638

Water samples were received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
 - Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
 - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
- * - Instrument Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

No problems were found with the analyses of this sample which would affect the end use of the data.


Nancy J. Potak
November 10, 1997

Holding Time

The samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were found with the initial calibration associated with the analysis of the samples.

The percent difference of bromoform (31%) was above the 25% quality assurance limit in the second continuing calibration associated with the analysis of these samples. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table for sample GW-H605(67'). Bromoform was not detected in the sample.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed for the 95-1 analysis of this sample delivery group.

Blank Spike

A blank spike was not analyzed.

Method Blank

No volatile compounds were detected in the method blanks associated with the analyses of either sample.

The data for the method blanks are reported next to the data for the samples in the data validation summary table.

Trip Blank

A trip blank was not analyzed with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

No problems were found with the reported instrument detection limits.

Sample Results

No problems were found with the reported results of either of the samples of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	
Sample GWH407(87') (Lab. #: 9727190) Received 09/19				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	1 J	1 J	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	11	11	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample GWH605(67') (Lab. #: 9727638) Received 09/24/97					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	4 J	4 J		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	2 J	2 J		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U	J	15
4-Methyl-2-Pentanone	10 U	5 J	5 J		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Water Volatile Organic Analyses - Method 95-1
Samples Received: September 19th & 24th, 1997.
Sample Delivery Group: IRS006
Laboratory Reference Numbers:

GW-H407(87') (9/19)	9727190
GW-H605(67') (9/24)	9727638

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5971 Level: Low - Waters
Tune File ID: A13909.D Acceptable: yes Time Requirements Met: yes
Initial Calibration File ID: A13910.D Date: 06/20/97 Page: 32
Associated Samples: VBLK9/26/97, GWH407(87'), VBLK9/29/97, GWH605(67')

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300
Surrogates:					
Toluene-d8	<30.0	>0.01			
Bromofluorobenzene *	<20.5	>0.20			
1,2-Dichloroethane-d4	<30.0	>0.01			

All Compounds Average RRF > QC Limit: yes
All Compounds Average RRF > 0.05: yes
All Compounds %RSD < QC Limit: yes
All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: $(RRF = A_{is}/A_x * C_{is}/C_s)$

COMPOUND:	Chloroform	1,1-Dichloroethene
PPB		
10	18161/26832 * 5.000 = 3.384	7368/26832 * 5.000 = 1.373
20	33882/23235 * 2.500 = 3.646	14467/23235 * 2.500 = 1.557
50	77057/25967 * 1.000 = 2.967	34131/25967 * 1.000 = 1.314
100	157703/26692 * 0.500 = 2.954	70771/26692 * 0.500 = 1.326
200	348598/26901 * 0.250 = 3.240	155033/26901 * 0.250 = 1.441

$$AV, RRF = 3.238$$

%RSD = 9.0%

AV. RRF = 1.402

$$\%RSD = 7.1\%$$

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971	Level: Low - Waters	
Tune File ID: A14934.D	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: A14935.D	Date: 09/26/97	Page: 53
Initial Calibration File ID: A13910.D	Date: 06/20/97	Page: 32
Associated Samples: VBLK9/26/97, GWH407(87')		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes
All Compounds Average RRF > 0.01: yes
All Compounds %D < QC Limit: yes

Footnote:
Footnote:

CALCULATION VERIFICATION: $(RRF = A_{is}/A_x \cdot C_{is}/C_s)$

COMPOUND:	Benzene	Bromoform
PPB		
50	210162/196903 * 1.000 = 1.067	76935/196903 * 1.000 = 0.391
	%D: (1.024 - 1.067) / 1.024 * 100 = -4.199219	%D: (0.316 - 0.391) / 0.316 * 100 = -23.734177

METHOD BLANK: VBLK9/26/97 (Page 67)

Compound	ppb	<CRDL
No compounds were detected in this method blank		

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971	Level: Low - Waters	
Tune File ID: A14959.D	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: A14960.D	Date: 09/29/97	Page: 58
Initial Calibration File ID: A13910.D	Date: 06/20/97	Page: 32
Associated Samples: VBLK9/29/97, GWH605(67')		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	30.9	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit:

All Compounds Average RRF > 0.01:

All Compounds %D < QC Limit:

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax * Cis/Cs)

COMPOUND:

1,1,1-Trichloroethane

Toluene

PPB

50

78260/190392 * 1.000 = 0.411

177917/156258 * 1.000 = 1.139

%D: (0.523-0.411) / 0.523 * 100 = 21.414914

%D: (1.334 - 1.139) / 1.334 * 100 = 14.617691

METHOD BLANK: VBLK9/29/97 (Page 73)

Compound

ppb

<CRDL

No compounds were detected in this method blank

OVERALL ASSESSMENT AND COMMENTS: ok

SUMMARY OF THE ANALYTICAL DATA VALIDATION For the Sonia Road Landfill

New York State Department of Environmental Conservation Data Validation Summary Form

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # In CLP	Non Compliance
IRS007	10/24/97	95	Trip Blank-24	W	Yes	NA	NA	NA	NA		
IRS007	10/24/97	95	MW-01D	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/24/97	95	MW-01I	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/24/97	95	MW-01S	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/28/97	95	Trip Blank-2	W	Yes	NA	NA	NA	NA		
IRS007	10/28/97	95	MW-02D	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/28/97	95	MW-02I	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/28/97	95	MW-02S	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/28/97	95	MW-07D	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/28/97	95	MW-07S	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/29/97	95	Trip Blank-3	W	Yes	NA	NA	NA	NA		
IRS007	10/29/97	95	MW-04D	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/29/97	95	MW-06D	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/29/97	95	MW-6DDL	W	Yes	NA	NA	NA	NA		
IRS007	10/29/97	95	MW-06I	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/29/97	95	MW-07I	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/30/97	95	Trip Blank-4	W	Yes	NA	NA	NA	NA		
IRS007	10/30/97	95	MW-04I	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/30/97	95	MW-04S	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/30/97	95	MW-05D	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/30/97	95	MW-05I	W	Yes	Yes	Yes	Yes	Yes		
IRS007	10/30/97	95	MW-05S	W	Yes	Yes	Yes	Yes	Yes		

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

**Water Volatile Organic Analyses - Method 95-1
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007
Laboratory Reference Numbers:**

Samples Received 10/24

TB-24	9731356
MW-01D	9731351
MW-01I	9731352
MW-01S	9731353

Samples Received 10/28

TB-2	9731515
MW-02D	9731510
MW-02I	9731511
MW-02S	9731512
MW-02SMS	9731512MS
MW-02SMSD	9731512MSD
MW-07D	9731513
MW-07S	9731714

Samples Received 10/29

TB-3	9731720
MW-04D	9731715
MW-06D	9731716
MW-06DDL	9731716DL
MW-06I	9731717
MW-06S	9731718
MW-07I	9731519

Samples Received 10/30

TB-4	9731858
MW-04I	9731853
MW-04S	9731854
MW-05D	9731855
MW-05I	9731856
MW-05S	9731857

Water samples were received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
- * - Instrument Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

No problems were found with the analyses of this sample delivery group which would affect the end use of the data.


Nancy J. Potak
December 18, 1997

Holding Time

The samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were found with any of the calibrations associated with the analyses of these samples.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

Method Blank

A low concentration of a non-target compound (9J), which was a suspected laboratory artifact due to column bleed) was detected in the 10/29 method blank. This was not detected in any of the associated samples.

No other volatile compounds were detected in the remaining method blanks associated with the analyses of these samples.

The data for the method blanks are reported next to the data for the samples in the data validation summary table.

Trip Blank

A low concentration of methylene chloride (1J ug/l) was detected in the trip blank received by the laboratory on 10/30. Methylene chloride was not detected in any of the samples which were received on that date.

No compounds were detected in any of the other three trip blanks which were received with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

No problems were found with the reported instrument detection limits.

Sample Results

Sample MW-06D (Lab. #: 9731716)

This sample contained high concentrations of 1,2-dichloroethene (480 ug/l) and tetrachloroethene (1,200 ug/l) which were above the linear range of the analysis. The sample was reanalyzed at a 10X dilution and the concentrations of both of these compounds were within the linear range. The data for these two analytes should be taken from the diluted analysis,

No problems were found with the reported results of the samples of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Trip Blank Received 10/24 (Lab. #: 9731356)					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	Qualifiers
Sample MW01D (Lab. #: 9731351) Received 10/24				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	5 J	5 J	
1,1-Dichloroethane	10 U	13	13	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	66	66	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	Qualifiers
Sample MW011 (Lab. #: 9731352) Received 10/24				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	2 J	2 J	
1,1-Dichloroethane	10 U	14	14	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	22	22	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
dis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Santa Road Landfill

Water TCL Volatile Organic Analyses - Method 96-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	
Sample MWL-01S (Lab. #: 9731363) received 10/24				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	8 J	8 J	
1,2-Dichloroethane (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
TB-2 Trip Blank Received 10/28 (Lab. #: 9731515)					
TCL Volatile Organics					
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW02D (Lab. #: 9731610) Received 10/28					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethane (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

**Data Validation Summary Table
For the Sonia Road Landfill**

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW021 (Lab. #: 9731511) Received 10/28					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW02S (Lab. #: 9731512) Received 10/28					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: (RS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW07D (Lab. #: 9731613) Received 10/28					
TCL Volatile Organics (Undiluted)					
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	1 J	1 J		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	12	13		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	3 J	3 J		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	21	21		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	1 J	1 J		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	
Sample MW04D (Lab. #: 9731715) Received 10/29				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	11	11	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	7 J	7 J	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	4 J	4 J	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	1 J	1 J	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	
Non-Target Volatile Organics				
Unknown (sus. column bleed) (7.36)	ND	31 J	31 J	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW06D (Lab. #: 9731716) Received 10/29					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	19	19		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	4 J	5 J		
1,1-Dichloroethane	10 U	4 J	4 J		
1,2-Dichloroethene (total)	10 U	440 E	445 E	J quality	72
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	23	23		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	45	45		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	1,100 E	1,103 E	J quality	72
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	1 J	1 J		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Dilution of Sample MW06D (Lab. #: 9731716DL) Received 10/29					
TCL Volatile Organics	(Diluted 10X)				
Chloromethane	10 U	100 U	100 U	J	qualify 72
Bromomethane	10 U	100 U	100 U	J	qualify 72
Vinyl Chloride	10 U	20 JD	20 JD	J	qualify 72
Chloroethane	10 U	100 U	100 U	J	qualify 72
Methylene Chloride	10 U	100 U	100 U	J	qualify 72
Acetone	10 U	100 U	100 U	J	qualify 72
Carbon Disulfide	10 U	100 U	100 U	J	qualify 72
1,1-Dichloroethene	10 U	100 U	100 U	J	qualify 72
1,1-Dichloroethane	10 U	100 U	100 U	J	qualify 72
1,2-Dichloroethene (total)	10 U	480 D	480		
Chloroform	10 U	100 U	100 U	J	qualify 72
1,2-Dichloroethane	10 U	100 U	100 U	J	qualify 72
2-Butanone	10 U	100 U	100 U	J	qualify 72
1,1,1-Trichloroethane	10 U	23 JD	23 JD	J	qualify 72
Carbon Tetrachloride	10 U	100 U	100 U	J	qualify 72
Bromodichloromethane	10 U	100 U	100 U	J	qualify 72
1,2-Dichloropropane	10 U	100 U	100 U	J	qualify 72
cis-1,3-Dichloropropene	10 U	100 U	100 U	J	qualify 72
Trichloroethene	10 U	48 JD	48 JD	J	qualify 72
Dibromochloromethane	10 U	100 U	100 U	J	qualify 72
1,1,2-Trichloroethane	10 U	100 U	100 U	J	qualify 72
Benzene	10 U	100 U	100 U	J	qualify 72
trans-1,3-Dichloropropene	10 U	100 U	100 U	J	qualify 72
Bromoform	10 U	100 U	100 U	J	qualify 72
4-Methyl-2-Pentanone	10 U	100 U	100 U	J	qualify 72
2-Hexanone	10 U	100 U	100 U	J	qualify 72
Tetrachloroethene	10 U	1,200 D	1,217 D		
1,1,2,2-Tetrachloroethane	10 U	100 U	100 U	J	qualify 72
Toluene	10 U	100 U	100 U	J	qualify 72
Chlorobenzene	10 U	100 U	100 U	J	qualify 72
Ethylbenzene	10 U	100 U	100 U	J	qualify 72
Styrene	10 U	100 U	100 U	J	qualify 72
Xylene (total)	10 U	100 U	100 U	J	qualify 72
Non-Target Volatile Organics					
None Detected					

**Data Validation Summary Table
For the Sonia Road Landfill**

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW061 (Lab. #: 9731717) Received 10/29					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	5 J	5 J		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	4 J	4 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	3 J	3 J		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
Sample MW06S (Lab. #: 9731718) Received 10/29				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	1 J	1 J	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethane (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	4 J	4 J	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	4 J	4 J	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	
Non-Target Volatile Organics				
Unknown (3.86)	ND	30 J	30 J	
Unknown (15.11)	ND	11 J	11 J	
Unknown Hydrocarbon (15.97)	ND	9 J	9 J	
Unknown Aromatic (17.69)	ND	9 J	9 J	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW071 (Lab. #: 9731719) Received 10/29					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPB)				
TB-4 Trip Blank Received 10/30 (Lab. #: 9731858)					
TCL Volatile Organics (Undiluted)					
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	1 J	1 J		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethane (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethane	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics

None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method	Lab.	QA	
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc.	Footnotes
Sample MW041 (Lab. #: 9731883) Received 10/30				
TCL Volatile Organics				
Chloromethane	(Undiluted)	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	20	20	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	5 J	5 J	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	3 J	3 J	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	1 J	1 J	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	
Non-Target Volatile Organics				
None Detected				

Data Validation Summary Table
For the Soria Road Landfill

Water TCL Volatile Organic Analyses - Method 95.1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW04S (Lab. #: 9731864) Received 10/30					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	8 J	8 J		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethane	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	4 J	4 J		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
Unknown (7.28)	ND	5 J	5 J		
Unknown (15.11)	ND	6 J	6 J		

Data Validation Summary Table
For the Santa Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc. Decision	Qualifiers Footnotes
Sample MW05D (Lab. #: 9731855) Received 10/30				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	1 J	1 J	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	3 J	3 J	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	2 J	2 J	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	
Non-Target Volatile Organics				
Propane, 2-methoxy-2-methyl- (7.32)	ND	15 JN	15 JN	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
Sample MW051 (Lab. #: 9731856) Received 10/30				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethene (total)	10 U	4 J	4 J	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	4 J	4 J	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Samples Received September 24th and 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW05S (Lab. #: 9731857) Received 10/30					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	9 J	9 J		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	5 J	5 J		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
Propane, 2-methoxy-2-methyl (7.25)	ND	6 JN	6 JN		
Unknown (15.10)	ND	7 J	7 J		

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Water Volatile Organic Analyses - Method 95-1
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007
Laboratory Reference Numbers:

Samples Received 10/24

TB-24	9731356
MW-01D	9731351
MW-01I	9731352
MW-01S	9731353

Samples Received 10/28

TB-2	9731515
MW-02D	9731510
MW-02I	9731511
MW-02S	9731512
MW-02SMS	9731512MS
MW-02SMSD	9731512MSD
MW-07D	9731513
MW-07S	9731714

Samples Received 10/29

TB-3	9731720
MW-04D	9731715
MW-06D	9731716
MW-06DDL	9731716DL
MW-06I	9731717
MW-06S	9731718
MW-07I	9731519

Samples Received 10/30

TB-4	9731858
MW-04I	9731853
MW-04S	9731854
MW-05D	9731855
MW-05I	9731856
MW-05S	9731857

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5971

Level: low - water

Tune File ID: A14357.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: A14358.D

Date: 08/05/97

Page: 206

Associated Samples: VBLK10/28, MSB10/28, MW02S, MW01D, MW01I, MW01S, TB 10/24, MW02D, MW02I, MW02SMS, MW02SMSD, MW07D, MW07S, TB-2, VBLK10/29, MW04D, MW06D, MW06I, MW06S, MW07I, TB-3, VBLK10/30, MW06DDL, VBLK10/31, MW04I, MW04S, MW05D, MW05I, MW05S, TB-4

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300

Surrogates:

Toluene-d8	<30.0	>0.01
Bromofluorobenzene *	<20.5	>0.20
1,2-Dichloroethane-d4	<30.0	>0.01

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes

All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Toluene
PPB		
10	12167/34004 * 5.000 = 1.789	46708/148840 * 5.000 = 1.569
20	25462/37124 * 2.500 = 1.715	96660/165114 * 2.500 = 1.464
50	58983/38941 * 1.000 = 1.515	225538/172398 * 1.000 = 1.308
100	119817/39680 * 0.500 = 1.510	459511/173779 * 0.500 = 1.322
200	236697/40766 * 0.250 = 1.452	897721/180168 * 0.250 = 1.246

AV. RRF = 1.596

%RSD = 9.2%

AV. RRF = 1.382

%RSD = 9.5%

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971

Level: low - water

Tune File ID: A15332

Acceptable: yes

Time Requirements Met: yes

Calibration File ID: A15333

Date: 10/28/97

Page: 228

Initial Calibration File ID: A14358.D

Date: 08/05/97

Page: 207

Associated Samples: VBLK10/28, MSB10/28, MW02S, MW01D, MW01I, MW01S, TB 10/24, MW02D, MW02I, MW02SMS, MW02SMSD, MW07D, MW07S, TB-2

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax * Cis/Cs)

COMPOUND:

Vinyl Chloride

Trichloroethene

PPB

50

62989/36566 * 1.000 = 1.723

79569/186530 * 1.000 = 0.427

%D: (1.585 - 1.723) / 1.585 * 100 = -8.706625

%D: (0.428 - 0.427) / 0.428 * 100 = 0.233645

METHOD BLANK: VBLK10/28 (Page 254)

Compound

ppb

<CRDL

No compounds were detected in this method blank

OVERALL ASSESSMENT AND COMMENTS: ok

**VOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**

Instrument ID: H5971	Level: low - water	
Tune File ID: A15362	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: A15363	Date: 10/29/97	Page: 233
Initial Calibration File ID: A14358.D	Date: 08/05/97	Page: 207
Associated Samples: VBLK10/29, MW04D, MW06D, MW06I, MW06S, MW07I, TB-3		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax * Cis/Cs)

COMPOUND:	1,1-Dichloroethane	Tetrachloroethene
PPB		
50	136970/38654 * 1.000 = 3.543	79494/162181 * 1.000 = 0.490

%D: (3.329 - 3.544) / 3.329 * 100 = -6.458396	%D: (0.420 - 0.490) / 0.420 * 100 = -16.666667

METHOD BLANK: VBLK10/29 (Page 260)

Compound	ppb	<CRDL
Unknown (Sus. Column bleed) (16.72)	9J	NA

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971

Level: low - water

Tune File ID: A15385

Acceptable: yes

Time Requirements Met: yes

Calibration File ID: A15386

Date: 10/30/97

Page: 238

Initial Calibration File ID: A14358.D

Date: 08/05/97

Page: 207

Associated Samples: VBLK10/30, MW06DDL

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:

Chloroform

Toluene

PPB

50

142267/43427 * 1.000 = 3.276

233574/186530 * 1.000 = 1.252

%D: (3.629 - 3.276) / 3.629 * 100 = 9.727198

%D: (1.382 - 1.252) / 1.382 * 100 = 9.406657

METHOD BLANK: VBLK10/30 (Page 367)

Compound

ppb

<CRDL

No compounds were detected in this method blank

OVERALL ASSESSMENT AND COMMENTS: ok

**VOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**

Instrument ID: H5971	Level: low - water	
Tune File ID: A15413	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: A15414	Date: 10/31/97	Page: 243
Initial Calibration File ID: A14358.D	Date: 08/05/97	Page: 207
Associated Samples: VBLK10/31, MW04I, MW04S, MW05D, MW05I, MW05S, TB-4		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax * Cis/Cs)

COMPOUND:

1,1-Dichloroethene

Chlorobenzene

PPB

50

61317/43808 * 1.000 = 1.400

178372/188939 * 1.000 = 0.944

%D: (1.596 - 1.400) / 1.596 * 100 = 12.280702

%D: (1.155 - 0.944) / 1.155 * 100 = 18.268398

METHOD BLANK: VBLK10/31 (Page 273)

Compound

ppb

<CRDL

No compounds were detected in this method blank

OVERALL ASSESSMENT AND COMMENTS: ok

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

**Water Semivolatile Organic Analyses - Method 95-1
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007
Laboratory Reference Numbers:**

Samples Received 10/24

MW-01D	9731351
MW-01I	9731352
MW-01S	9731353

Samples Received 10/28

MW-02D	9731510
MW-02I	9731511
MW-02S	9731512
MW-02SMS	9731512MS
MW-02SMSD	9731512MSD
MW-07D	9731513
MW-07S	9731714

Samples Received 10/29

MW-04D	9731715
MW-06D	9731716
MW-06I	9731717
MW-06S	9731718
MW-07I	9731519

Samples Received 10/30

MW-04I	9731853
MW-04S	9731854
MW-05D	9731855
MW-05I	9731856
MW-05S	9731857

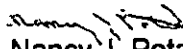
Water samples were received for analyses of the semivolatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
 - Calibrations
 - Laboratory Blanks
 - Field Blanks
- * - Surrogate Compound Recoveries
- * - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
 - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
- * - Instrument Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

No problems were found with the analyses of this sample delivery group which would affect the end use of the data.


Nancy J. Potak
December 20, 1997

Holding Time

The samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the NYS DEC's ASP quality assurance limits with the one exception of the terphenyl-d14 surrogate (30%) in sample MW-071. This was just below the 30% quality assurance limit.

The NYS DEC ASP program allows for one surrogate to be outside of the quality assurance limits (as long as the recovery is greater than 10%). All of the NYS DEC ASP requirements were met in the analysis of this sample.

Calibrations

The RRF 80 for 1,2-dichlorobenzene was not included in the initial calibration FORM VI, nor was it found in the raw data. This has been requested from the laboratory.

No other problems were found with the initial calibration associated with the analysis of the samples.

Matrix Spike / Matrix Spike Duplicate

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits with the exceptions of the recoveries of 4-nitrophenol in both the matrix spike (92%) and matrix spike duplicate (89%). Both of these recoveries were above the 80% quality assurance limit. The recovery of this compound was also above the quality assurance limit in the blank spike.

The slightly high recovery of this compound does not significantly affect the end use of the data. 4-Nitrophenol was not detected in any of the samples of this delivery group.

Blank Spike

All blank spike recoveries were within the required quality assurance limits with the one exception of the recovery of 4-nitrophenol (85%). This was just over the 80% quality assurance limit. The slightly high recovery of this compound does not significantly affect the end use of the data. 4-nitrophenol was not detected in any of the samples of this delivery group.

Method Blank

Low concentrations of bis(2-ethylhexyl)phthalate, an aldol condensation product and another non-target compound were detected in two of the three method blanks. These were negated or qualified according to the standard EPA data validation procedures whenever they were found in an associated sample.

The data for the method blanks are reported next to the data for the samples in the data validation summary table.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

No problems were found with the reported instrument detection limits.

Sample Results

No problems were found with the reported results of either of the samples of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
 Samples Received: October 24th, through 30th, 1997
 Sample Delivery Group: IR9007

Sample Delivery Group: IRS007				QA	
Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-01D (Lab. #: 9731351) Received 10/24					
TCL Semivolatile Organics					
Phenol	(Undiluted)	10 U	10 U	10 U	
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	
2-Chlorophenol	10 U	10 U	10 U	10 U	
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	
2-Methylphenol	10 U	10 U	10 U	10 U	
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	10 U	
4-Methylphenol	10 U	10 U	10 U	10 U	
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	
Hexachloroethane	10 U	10 U	10 U	10 U	
Nitrobenzene	10 U	10 U	10 U	10 U	
Isophorone	10 U	10 U	10 U	10 U	
2-Nitrophenol	10 U	10 U	10 U	10 U	
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	
Napthalene	10 U	10 U	10 U	10 U	
4-Chloroaniline	10 U	10 U	10 U	10 U	
Hexachlorobutadiene	10 U	10 U	10 U	10 U	
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	
2-Methylnapthalene	10 U	10 U	10 U	10 U	
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	
2-Chloronaphthalene	10 U	10 U	10 U	10 U	
2-Nitroaniline	25 U	25 U	25 U	25 U	
Dimethylphthalate	10 U	10 U	10 U	10 U	
Acenaphthylene	10 U	10 U	10 U	10 U	
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	
3-Nitroaniline	25 U	25 U	25 U	25 U	
Acenaphthene	10 U	10 U	10 U	10 U	
2,4-Dinitrophenol	25 U	25 U	25 U	25 U	
4-Nitrophenol	10 U	10 U	10 U	10 U	
Dibenzofuran	10 U	10 U	10 U	10 U	
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	
Diethylphthalate	10 U	10 U	10 U	10 U	
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	
Fluorene	10 U	10 U	10 U	10 U	
4-Nitroaniline	25 U	25 U	25 U	25 U	
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U	
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U	
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	
Hexachlorobenzene	10 U	10 U	10 U	10 U	
Pentachlorophenol	25 U	25 U	25 U	25 U	
Phenanthrene	10 U	10 U	10 U	10 U	
Anthracene	10 U	10 U	10 U	10 U	
Carbazole	10 U	10 U	10 U	10 U	
Di-n-Butylphthalate	10 U	10 U	10 U	10 U	
Fluoranthene	10 U	10 U	10 U	10 U	
Pyrene	10 U	10 U	10 U	10 U	
Butylbenzylphthalate	10 U	10 U	10 U	10 U	
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U	
Benzo(a)anthracene	10 U	10 U	10 U	10 U	
Chrysene	10 U	10 U	10 U	10 U	
Bis(2-Ethylhexyl)phthalate	10 U	9 J	9 J	9 J	
Di-n-octylphthalate	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	
Benzo(a)pyrene	10 U	10 U	10 U	10 U	
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	
Non-Target Semivolatile Organics					
Unknown Alcohol (8.91)	ND	6 J	6 J	6 J	
Unknown Alcohol (9.07)	ND	3 J	3 J	3 J	
Unknown Alcohol (9.12)	ND	3 J	3 J	3 J	
Unknown Alcohol (9.12)	ND	4 JN	4 JN	4 JN	
Phosphoric acid tributyl ester (12.52)	ND	3 J	3 J	3 J	
Unknown (16.85)	ND				

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-011 (Lab. #: 9731352) Received 10/24					
TCL Semivolatile Organics	(Undiluted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	4 J	5 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
Unknown Alcohol (8.91)	ND	31 J	31 J		
Unknown Alcohol (9.08)	ND	15 J	15 J		
Unknown Alcohol (9.12)	ND	17 J	17 J		
Phosphoric acid tributyl ester (12.53)	ND	6 JN	6 JN		
Unknown (16.85)	ND	4 J	4 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-01S (Lab. #: 9731353) Received 10/24					
TCL Semivolatile Organics	(Untiltuted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	1 J	1 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2(3H)-Benzothiazolone (12.84)	ND	4 JN	4 JN		
Unknown (16.85)	ND	11 J	11 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IR3007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-02D (Lab. #: 9731510) Received 10/28					
TCL Semivolatile Organics	(Unlituted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	9 J	9 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.83)	ND	79 JNA	79 JNA	quality	67
Unknown Alcohol (8.80)	ND	7 J	7 J		
Unknown Alcohol (9.04)	ND	6 J	5 J		
Phosphoric acid tributyl ester (12.44)	ND	5 JN	5 JN		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-021 (Lab. #: 9731511) Received 10/28					
TCL Semivolatile Organics					
Phenol	(Unlabeled)	10 U	10 U		
bis(2-Chloroethyl)Ether		10 U	10 U		
2-Chlorophenol		10 U	10 U		
1,3-Dichlorobenzene		10 U	10 U		
1,4-Dichlorobenzene		10 U	10 U		
1,2-Dichlorobenzene		10 U	10 U		
2-Methylphenol		10 U	10 U		
bis(2-Chloroisopropyl)ether		10 U	10 U		
4-Methylphenol		10 U	10 U		
N-Nitroso-di-n-propylamine		10 U	10 U		
Hexachloroethane		10 U	10 U		
Nitrobenzene		10 U	10 U		
Isophorone		10 U	10 U		
2-Nitrophenol		10 U	10 U		
2,4-Dimethylphenol		10 U	10 U		
bis(2-Chloroethoxy)methane		10 U	10 U		
2,4-Dichlorophenol		10 U	10 U		
1,2,4-Trichlorobenzene		10 U	10 U		
Naphthalene		10 U	10 U		
4-Chloroaniline		10 U	10 U		
Hexachlorobutadiene		10 U	10 U		
4-Chloro-3-methylphenol		10 U	10 U		
2-Methylnaphthalene		10 U	10 U		
Hexachlorocyclopentadiene		10 U	10 U		
2,4,6-Trichlorophenol		10 U	10 U		
2,4,5-Trichlorophenol		25 U	25 U		
2-Chloronaphthalene		10 U	10 U		
2-Nitroaniline		25 U	25 U		
Dimethylphthalate		10 U	10 U		
Acenaphthylene		10 U	10 U		
2,6-Dinitrotoluene		10 U	10 U		
3-Nitroaniline		25 U	25 U		
Acenaphthene		10 U	10 U		
2,4-Dinitrophenol		25 U	25 U		
4-Nitrophenol		10 U	10 U		
Dibenzofuran		10 U	10 U		
2,4-Dinitrotoluene		10 U	10 U		
Diethylphthalate		10 U	10 U		
4-Chlorophenyl-phenylether		10 U	10 U		
Fluorene		10 U	10 U		
4-Nitroaniline		25 U	25 U		
4,6-Dinitro-2-methylphenol		25 U	25 U		
N-Nitrosodiphenylamine (1)		10 U	10 U		
4-Bromophenyl-phenylether		10 U	10 U		
Hexachlorobenzene		10 U	10 U		
Pentachlorophenol		25 U	25 U		
Phenanthrene		10 U	10 U		
Anthracene		10 U	10 U		
Carbazole		10 U	10 U		
Di-n-Butylphthalate		10 U	10 U		
Fluoranthene		10 U	10 U		
Pyrene		10 U	10 U		
Butylbenzylphthalate		10 U	10 U		
3,3'-Dichlorobenzidine		10 U	10 U		
Benzo(a)anthracene		10 U	10 U		
Chrysene		10 U	10 U		
Bis(2-Ethylhexyl)phthalate		10 U	2 J		
Di-n-octylphthalate		10 U	10 U		
Benzo(b)fluoranthene		10 U	10 U		
Benzo(k)fluoranthene		10 U	10 U		
Benzo(a)pyrene		10 U	10 U		
Indeno(1,2,3-cd)pyrene		10 U	10 U		
Dibenz(a,h)anthracene		10 U	10 U		
Benzo(g,h,i)perylene		10 U	10 U		
Non-Target Semivolatile Organics					
Unknown Alcohol (14.72)	ND	2 J	2 J		
Unknown Alcohol (15.60)	ND	3 J	3 J		
Unknown (16.37)	ND	2 J	3 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semi-volatile Organic Analyses - Method 95-2
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007

Sample Delivery Group: IRS007				QA		Qualifiers	Footnotes
Sample / Analyte	Method	Lab.	Validation				
	Blank	Reported	Reported				
	Conc.	Conc.	Conc.	Decision			
(PPB)	(PPB)	(PPB)					
Sample MW-025 (Lab. #: 9731512) Received 10/28							
TCL Semi-volatile Organics							
Phenol	(Untilled)	10 U	10 U	10 U			
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U			
2-Chlorophenol	10 U	10 U	10 U	10 U			
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U			
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U			
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U			
2-Methylphenol	10 U	10 U	10 U	10 U			
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	10 U			
4-Methylphenol	10 U	10 U	10 U	10 U			
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U			
Hexachloroethane	10 U	10 U	10 U	10 U			
Nitrobenzene	10 U	10 U	10 U	10 U			
Isophorone	10 U	10 U	10 U	10 U			
2-Nitrophenol	10 U	10 U	10 U	10 U			
2,4-Dimethylphenol	10 U	10 U	10 U	10 U			
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U			
2,4-Dichlorophenol	10 U	10 U	10 U	10 U			
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U			
Naphthalene	10 U	10 U	10 U	10 U			
4-Chloroaniline	10 U	10 U	10 U	10 U			
Hexachlorobutadiene	10 U	10 U	10 U	10 U			
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U			
2-Methylnaphthalene	10 U	10 U	10 U	10 U			
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U			
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U			
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U			
2-Chloronaphthalene	10 U	10 U	10 U	10 U			
2-Nitroaniline	25 U	25 U	25 U	25 U			
Dimethylphthalate	10 U	10 U	10 U	10 U			
Acenaphthylene	10 U	10 U	10 U	10 U			
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U			
3-Nitroaniline	25 U	25 U	25 U	25 U			
Acenaphthene	10 U	10 U	10 U	10 U			
2,4-Dinitrophenol	25 U	25 U	25 U	25 U			
4-Nitrophenol	10 U	10 U	10 U	10 U			
Dibenzofuran	10 U	10 U	10 U	10 U			
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U			
Diethylphthalate	10 U	2 J	2 J	2 J			
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U			
Fluorene	10 U	10 U	10 U	10 U			
4-Nitroaniline	10 U	10 U	10 U	10 U			
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U			
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U			
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U			
Hexachlorobenzene	10 U	10 U	10 U	10 U			
Pentachlorophenol	25 U	25 U	25 U	25 U			
Phenanthrene	10 U	10 U	10 U	10 U			
Anthracene	10 U	10 U	10 U	10 U			
Carbazole	10 U	10 U	10 U	10 U			
Di-n-Butylphthalate	10 U	10 U	10 U	10 U			
Fluoranthene	10 U	10 U	10 U	10 U			
Pyrene	10 U	10 U	10 U	10 U			
Butylbenzylphthalate	10 U	10 U	10 U	10 U			
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U			
Benzo(a)anthracene	10 U	10 U	10 U	10 U			
Chrysene	10 U	10 U	10 U	10 U			
Bis(2-Ethylhexyl)phthalate	10 U	5 J	5 J	5 J			
Di-n-octylphthalate	10 U	10 U	10 U	10 U			
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U			
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U			
Benzo(a)pyrene	10 U	10 U	10 U	10 U			
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U			
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U			
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U			
Non-Target Semi-volatile Organics							
2-Pentane, 4-hydroxy-4-methyl (3,83)	ND	21 JNA	21 JNA				
Unknown (14.72)	ND	6 J	6 J	6 J	quality	67	
Unknown (15.03)	ND	4 J	4 J	4 J			
Unknown (15.60)	ND	6 J	7 J	7 J			
Unknown (16.37)	ND	6 J	6 J	6 J			
Unknown (16.78)	ND	5 J	5 J	5 J			

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-07D (Lab. #: 9731513) Received 10828					
TCL Semivolatile Organics	(Untilted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	1 J	1 J		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	3 J	3 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
Unknown (2.03)	ND	3 J	3 JNA		
2-Pentanone, 4-hydroxy-4-methyl (3.83)	ND	39 JNA	39 JNA	qualify	67
Unknown (14.71)	ND	2 J	2 J		
Unknown (16.76)	ND	3 J	3 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-07S (Lab. #: 9731514) Received 10/28					
TCL Semivolatile Organics	(Untilted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.82)	ND	50 JNA	50 JNA	qualify	67
Unknown (15.11)	ND	6 J	6 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-04D (Lab. #: 9731715) Received 10/29					
TCL Semivolatile Organics	(Untilted)				
Phenol	10 U	4 J	5 J		
bis(2-Chloroethyl)Ether	10 U	10 U	10 U		
2-Chlorophenol	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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	3 J	3 J		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	4 J	4 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.84)	ND	87 JNA	87 JNA	qualify	67
Unknown Acid (6.86)	ND	20 J	20 J		
Unknown (8.82)	ND	80 J	80 J		
Unknown (8.99)	ND	36 J	36 J		
Unknown (9.04)	ND	42 J	42 J		
Phosphoric acid tributyl ester (12.46)	ND	40 JN	40 JN		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analysis - Method 95-2
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-06D (Lab. #: 9731716) Received 10/29					
TCL Semivolatile Organics (Unlitred)					
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	4 J	4 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanol, 4-hydroxy-4-methyl (3.82)	ND	84 JNA	84 JNA	quality	67
Hexadecanoic acid (14.29)	ND	15 JN	15 JN		
Oleic Acid (14.99)	ND	40 JN	40 JN		
Unknown Acid (15.93)	ND	10 J	10 J		
Unknown (16.63)	ND	10 J	10 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method		Lab.	Validation	Qualifiers	Footnotes
	Blank	Reported				
	Conc.	Conc.		Conc.		
	(PPB)	(PPB)		Decision		

Sample MW-061 (Lab. #: 9731717) Received 10/29

TCL Semivolatile Organics		(Unitless)				quality	67
Phenol	10 U	10 U	10 U	10 U			
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U			
2-Chlorophenol	10 U	10 U	10 U	10 U			
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U			
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U			
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U			
2-Methylphenol	10 U	10 U	10 U	10 U			
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	10 U			
4-Methylphenol	10 U	10 U	10 U	10 U			
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U			
Hexachloroethane	10 U	10 U	10 U	10 U			
Nitrobenzene	10 U	10 U	10 U	10 U			
Isophorone	10 U	10 U	10 U	10 U			
2-Nitrophenol	10 U	10 U	10 U	10 U			
2,4-Dimethylphenol	10 U	10 U	10 U	10 U			
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U			
2,4-Dichlorophenol	10 U	10 U	10 U	10 U			
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U			
Naphthalene	10 U	10 U	10 U	10 U			
4-Chloroaniline	10 U	10 U	10 U	10 U			
Hexachlorobutadiene	10 U	10 U	10 U	10 U			
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U			
2-Methylnaphthalene	10 U	10 U	10 U	10 U			
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U			
2,4,6-Trichlorophenol	25 U	25 U	25 U	25 U			
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U			
2-Chloronaphthalene	25 U	25 U	25 U	25 U			
2-Nitroaniline	10 U	10 U	10 U	10 U			
Dimethylphthalate	10 U	10 U	10 U	10 U			
Acenaphthylene	10 U	10 U	10 U	10 U			
2,6-Dinitrotoluene	25 U	25 U	25 U	25 U			
3-Nitroaniline	10 U	10 U	10 U	10 U			
Acenaphthene	25 U	25 U	25 U	25 U			
4-Nitrophenol	10 U	10 U	10 U	10 U			
Dibenzofuran	10 U	10 U	10 U	10 U			
2,4-Dinitrofluorene	10 U	10 U	10 U	10 U			
Diethylphthalate	10 U	10 U	10 U	10 U			
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U			
Fluorene	10 U	10 U	10 U	10 U			
4-Nitroaniline	25 U	25 U	25 U	25 U			
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U			
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U			
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U			
Hexachlorobenzene	10 U	10 U	10 U	10 U			
Pentachlorophenol	25 U	25 U	25 U	25 U			
Phenanthrene	10 U	10 U	10 U	10 U			
Anthracene	10 U	10 U	10 U	10 U			
Carbazole	10 U	10 U	10 U	10 U			
Di-n-Butylphthalate	10 U	10 U	10 U	10 U			
Fluoranthene	10 U	10 U	10 U	10 U			
Pyrene	10 U	10 U	10 U	10 U			
Butylbenzylphthalate	10 U	10 U	10 U	10 U			
3,3-Dichlorobenzidine	10 U	10 U	10 U	10 U			
Benzo(a)anthracene	10 U	10 U	10 U	10 U			
Chrysene	10 U	10 U	10 U	10 U			
Bis(2-Ethylhexyl)phthalate	2 J	2 J	2 J	2 J			
Di-n-octylphthalate	10 U	10 U	10 U	10 U			
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U			
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U			
Benzo(a)pyrene	10 U	10 U	10 U	10 U			
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U			
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U			
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U			
Non-Target Semivolatile Organics							
2-Pentanone, 4-hydroxy-4-methyl (3.83)	ND	70 JNA	70 JNA				
Unknown (15.14)	ND	44 J	44 J				
Unknown (16.78)	ND	2 J	3 J				
Unknown (18.19)	ND	21 J	21 J				
Unknown (18.32)	ND	41 J	41 J				

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-068 (Lab. #: 9731718) Received 10/29					
TCL Semivolatile Organics	(Untilted)				
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		
1,3-Dichlorobenzene	10 U	10 U	10 U		
1,4-Dichlorobenzene	10 U	1 J	1 J		
1,2-Dichlorobenzene	10 U	10 U	10 U		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	10 U	10 U	10 U		
3-Nitroaniline	25 U	25 U	25 U		
Acenaphthene	10 U	4 J	4 J		
2,4-Dinitrophenol	25 U	25 U	25 U		
4-Nitrophenol	10 U	10 U	10 U		
Dibenzofuran	10 U	2 J	2 J		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	2 J	2 J		
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	4 J	4 J		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
3-Penten-2-one, 4-methyl- (3.22)	ND	6 J	6 JNA	quality	67
2-Pentanone, 4-hydroxy-4-methyl (3.84)	ND	92 J	92 JNA	quality	67
Unknown Aromatic (12.68)	ND	7 J	7 J		
2(3H)-Benzothiazolone (12.82)	ND	40 JN	40 JN		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-071 (Lab. #: 973179) Received 10/29					
TCL Semivolatile Organics (Untilted)					
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	4 J	4 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.82)	ND	84 JNA	84 JNA	quality	67
Hexadecanoic Acid (14.26)	ND	6 JN	6 JN		
Oleic Acid (14.98)	ND	12 JN	12 JN		
Unknown (15.72)	ND	4 J	4 J		
Unknown Acid (15.93)	ND	9 J	9 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-041 (Lab. #: 9731853) Received 10/30					
TCL Semivolatile Organics	(Unfiltered)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	2 J	2 J		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	2 J	41 B	41 B	qualify	3
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.84)	30 JNA	21 JNAB	21 JNAB	negate	1
Benzoic Acid (7.42)	ND	12 JN	12 JN		
2(3H)-Benzothiazolone (12.80)	ND	15 JN	15 JN		
Oleic Acid (14.99)	ND	11 JN	11 JN		
Unknown (15.72)	ND	5 J	5 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IR3007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-04S (Lab. #: 9731854) Received 10/30					
TCL Semivolatile Organics	(Untituted)				
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		
1,3-Dichlorobenzene	10 U	10 U	10 U		
1,4-Dichlorobenzene	10 U	1 J	1 J		
1,2-Dichlorobenzene	10 U	10 U	10 U		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
2-Methylnaphthalene	10 U	3 J	5 J		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	10 U	10 U	10 U		
3-Nitroaniline	25 U	25 U	25 U		
Acenaphthene	10 U	3 J	3 J		
2,4-Dinitrophenol	25 U	25 U	25 U		
4-Nitrophenol	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	2 J	2 J		
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	7 J	7 J		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	2 J	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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.85)	30 NJA	47 NJAB	47 NJAB	negate	1
Unknown aromatic (12.69)	ND	7 J	7 J		
2(3H)-Benzothiazolone (12.83)	ND	37 JN	37 JN		
Unknown (18.31)	ND	14 J	14 J		
Unknown (20.73)	ND	14 J	14 J		

Data Validation Summary Table
For the Santa Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-05D (Lab. #: 9731855). Received 10/30					
TCL Semivolatile Organics					
(Unlabeled)					
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
2-Methylnaphthalene	10 U	10 U	10 U		
Hexachlorocyclopentadiene	10 U	10 U	10 U		
2,4,6-Trichlorophenol	25 U	25 U	25 U		
2,4,5-Trichlorophenol	10 U	10 U	10 U		
2-Chloronaphthalene	25 U	25 U	25 U		
2-Nitroaniline	10 U	10 U	10 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	25 U	25 U	25 U		
3-Nitroaniline	10 U	10 U	10 U		
Acenaphthene	25 U	25 U	25 U		
2,4-Dinitrophenol	10 U	10 U	10 U		
4-Nitrophenol	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	2 J	2 JB	2 JB	negate	1
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		
DiBenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.84)	30 JNA	25 JNAB	25 JNAB		
2(3H)-Benzothiazolone (12.78)	ND	7 JN	7 JN		
Unknown (14.32)	ND	10 J	10 J		
Unknown (15.72)	ND	11 J	12 J		
Unknown (16.78)	ND	6 J	6 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-051 (Lab. #: 9731856) Received 10/30					
TCL Semivolatile Organics	(Undiluted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	2 J	7 JB	7 JB	negate	1
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.83)	30 NJA	35 JNAB	35 JNAB	negate	1
Hexadecanoic acid (14.29)	ND	11 JN	11 JN		
Oleic acid (14.99)	ND	47 JN	47 JN		
Unknown Acid (15.93)	ND	14 J	14 J		
Unknown (17.42)	ND	10 J	10 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
 Samples Received: October 24th, through 30th, 1997
 Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-05S (Lab. #: 9731857) Received 10/30					
TCL Semivolatile Organics	(Untilled)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U		
4-Methylphenol	10 U	1 J	1 J		
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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	10 U	10 U	10 U		
3-Nitroaniline	25 U	25 U	25 U		
Acenaphthene	10 U	3 J	3 J		
2,4-Dinitrophenol	25 U	25 U	25 U		
4-Nitrophenol	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	2 J	2 J		
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	4 J	4 J		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	2 J	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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (3.85)	30 NJA	26 JNAB	26 JNAB	negate	1
2(3H)-Benzothiazolone (12.81)	ND	21 JN	21 JN		
Unknown (14.33)	ND	12 J	12 J		
Oleic Acid (14.99)	ND	25 JN	25 JN		
Unknown (15.72)	ND	11 J	11 J		

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Water Semivolatile Organic Analyses - Method 95-1
Samples Received: October 24th, through 30th, 1997
Sample Delivery Group: IRS007
Laboratory Reference Numbers:

Samples Received 10/24

MW-01D	9731351
MW-01I	9731352
MW-01S	9731353

Samples Received 10/28

MW-02D	9731510
MW-02I	9731511
MW-02S	9731512
MW-02SMS	9731512MS
MW-02SMSD	9731512MSD
MW-07D	9731513
MW-07S	9731714

Samples Received 10/29

MW-04D	9731715
MW-06D	9731716
MW-06I	9731717
MW-06S	9731718
MW-07I	9731519

Samples Received 10/30

MW-04I	9731853
MW-04S	9731854
MW-05D	9731855
MW-05I	9731856
MW-05S	9731857

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY
(Page 1 of 2)**

Instrument ID: H5972

Tune File ID: C05909.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: C05910.D

Date: 10/31/97

Page: 255

Associated Samples: SBLK01, MW-01D, MW-01I, MW-01S, SBLK02, MSB(10/30), SBLK03, MW-02D, MW-02I, MW-02S, MW-02SMS, MW-02SMSD, MW-07D, MW-04D, MW-06D, MW-06I, MW-06S, MW-07I, MW-04I, MW-04S, MW-05D, MW-05I, MW-05S, MW-07S

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<20.5	>0.800	Acenaphthene *	<20.5	>0.800
bis(2-Chloroethyl)Ether *	<20.5	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<20.5	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<20.5	>0.600	Dibenzofuran *	<20.5	>0.800
1,4-Dichlorobenzene *	<20.5	>0.500	2,4-Dinitrotoluene *	<20.5	>0.200
1,2-Dichlorobenzene *	<20.5	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<20.5	>0.700	4-Chlorophenyl-phenylether*	<20.5	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<20.5	>0.900
4-Methylphenol *	<20.5	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<20.5	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<20.5	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<20.5	>0.200	4-Bromophenyl-phenylether *	<20.5	>0.100
Isophorone *	<20.5	>0.400	Hexachlorobenzene *	<20.5	>0.100
2-Nitrophenol *	<20.5	>0.100	Pentachlorophenol *	<20.5	>0.050
2,4-Dimethylphenol *	<20.5	>0.200	Phenanthrene *	<20.5	>0.700
bis(2-Chloroethoxy)methane *	<20.5	>0.1000	Anthracene *	<20.5	>0.700
2,4-Dichlorophenol *	<20.5	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<20.5	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<20.5	>0.700	Fluoranthene *	<20.5	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<20.5	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<20.5	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<20.5	>0.400	Benzo(a)anthracene *	<20.5	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<20.5	>0.700
2,4,6-Trichlorophenol *	<20.5	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<20.5	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<20.5	>0.800	Benzo(b)fluoranthene *	<20.5	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<20.5	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<20.5	>0.700
Acenaphthylene *	<20.5	>0.1000	Indeno(1,2,3-cd)pyrene *	<20.5	>0.500
2,6-Dinitrotoluene *	<20.5	>0.200	Dibenz(a,h)anthracene *	<20.5	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<20.5	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<20.5	>0.700			
Terphenyl-d14 *	<20.5	>0.500			
Phenol-d5 *	<20.5	>0.800			
2-Fluorophenol *	<20.5	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<20.5	>0.80			
1,2-Dichlorobenzene-d4 *	<20.5	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

Footnote:

All Compounds %RSD < QC Limit: yes

Footnote:

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY
(Page 2 of 2)**

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

Compound:

2-Methylnaphthalene

1,3-Dichlorobenzene

PPB

20	130914/339929 * 2.000 = 0.770
50	228990/245820 * 0.800 = 0.745
80	481681/403892 * 0.500 = 0.596
120	507706/249585 * 0.333 = 0.677
160	662442/266559 * 0.250 = 0.621

77131/88862 * 2.000 = 1.736
127876/63368 * 0.800 = 1.614
295852/105773 * 0.500 = 1.399
299266/64903 * 0.333 = 1.535
411597/73216 * 0.250 = 1.405

AV. RRF = 0.682

%RSD = 11.1%

AV. RRF = 1.538

%RSD = 9.3%

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**
(page 1 of 2)

Instrument ID: H5972

Tune File ID: C05915.D

Acceptable: yes

Time Requirements Met: yes

Calibration File ID: C05916.D

Date: 11/01/97

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Initial Calibration File ID: C05910.D

Date: 10/31/97

Page: 255

Associated Samples: SBLK01, MW-01D, MW-01I, MW-01S

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.010
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<25.0	>0.010
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<25.0	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.1000	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>0.1000	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<25.0	>0.80			
1,2-Dichlorobenzene-d4 *	<25.0	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Acenaphthene
 PPB

Fluoranthene

50 213230/ 129827 * 0.800 = 1.314

318846/215971 * 0.800 = 1.181

PERCENT DIFFERENCE:

$$(1.248 - 1.314) / 1.248 * 100 = -5.288462$$

$$(1.068 - 1.181) / 1.068 * 100 = -10.580524$$

METHOD BLANK: SBLK01 (Page 302)

For samples MW-01D, MW01I, MW-01S

Compound

ppb

<CRDL

No compounds were detected in this method blank.

METHOD BLANK: SBLK02 (Page 309)

For samples MSB, MW-02D, MW02I, MW-02S, MW02SMS, MW02SMSD, MW-07D, MW-04D, MW-06D, MW-06I, MW-06S, MW-07I, MW-07S

Compound

ppb

<CRDL

Unknown Acid (10.88)

4J

NA

METHOD BLANK: SBLK03 (Page 317)

For samples MW-04I, MW-04S, MW-05D, MW-05I, MW-05S

Compound

ppb

<CRDL

bis(2-ethylhexyl)phthalate

2J

yes

2-Pentanone, 4-hydroxy-4-methyl (3.84)

30NJA

NA

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY**

(page 1 of 2)

Instrument ID: H5972

Tune File ID: C06002.D

Calibration File ID: C06003.D

Initial Calibration File ID: C05910.D

Acceptable: yes

Date: 11/07/97

Date: 10/31/97

Time Requirements Met: yes

Page: 290

Page: 255

Associated Samples: SBLK02, MSB(10/30), SBLK03, MW-02D, MW-02I, MW-02S, MW-02SMS, MW-02SMSD, MW-07D, MW-04D, MW-06D, MW-06I, MW-06S, MW-07I, MW-04I, MW-04S, MW-05D, MW-05I, MW-05S, MW-07S

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether*	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<25.0	>0.100	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.100	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>0.1000	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<25.0	>0.80			
1,2-Dichlorobenzene-d4 *	<25.0	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: 2,4-Dichlorophenol
PPB

Benzo(a)pyrene

50 79259/222075 * 0.800 = 0.286

219986/168238 * 0.800 = 1.046

PERCENT DIFFERENCE:

$$(0.313 - 0.286) / 0.313 * 100 = 8.626198$$

$$(1.014 - 1.046) / 1.014 * 100 = -3.155819$$

METHOD BLANK: SBLK
Compound

(Page)

ppb

<CRDL

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill

TAL Inorganic and Cyanide Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Laboratory Reference Numbers:

Samples Received 10/24

MW-01D	9731351
MW-01I	9731352
MW-01S	9731353

Samples Received 10/28

MW-02D	9731510
MW-02I	9731511
MW-02S	9731512
MW-02SMS	9731512MS
MW-02SMSD	9731512MSD
MW-07D	9731513
MW-07S	9731714

Samples Received 10/29

MW-04D	9731715
MW-06D	9731716
MW-06I	9731717
MW-06S	9731718
MW-07I	9731519

Samples Received 10/30

MW-04I	9731853
MW-04S	9731854
MW-05D	9731855
MW-05I	9731856
MW-05S	9731857

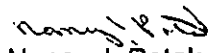
Water samples were received for TAL metals analyses by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
 - CRDL Standards
- * - ICP Interference Check Sample
- * - Laboratory Control Sample
 - Serial Dilutions
- * - Laboratory Blanks
 - Field Blanks
- * - Preparation Blanks
- * - Matrix Spike
- * - Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
- * - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

No problems were found which would affect the end use of the data.


Nancy J. Potak
December 18, 1997

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

The recoveries of all CRDL standards were within the 80% to 120% quality assurance limits with the following exceptions:

<u>Analyte</u>	<u>Initial % Recovery</u>	<u>Final % Recovery</u>
Arsenic	(ok)	122%
Thallium	(ok)	132%

The low concentrations of arsenic which were detected in some of the samples may have been slightly overestimated. The arsenic data for these samples were flagged with the "J" qualifier and footnoted with #21 in the data validation summary table.

Thallium was not detected in any of the samples of this delivery group. The high CRDL standard recoveries do not affect analytes which were not found in a sample.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

All of the traditional furnace analytes which were analyzed by ICP were also included in solution AB.

Matrix Spike Recovery

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte. All recoveries were within the acceptable quality assurance limits (75% - 125%).

Duplicate Analysis

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCL analyte list. All recoveries which could be calculated were within the acceptable limits (+/- 20%).

Laboratory Control Sample

No problems were detected with the recoveries of the water LCS standard.

Serial Dilutions

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was also used for the serial dilution. All of the percent differences which could be calculated were within the required quality assurance limits with the exception of the zinc serial dilution (40%). This was above the 10% quality assurance limit. All of the zinc data was flagged with the "J" qualifier and footnoted with #51 in the data validation summary table.

Instrument Detection Limit

No problems were found with the instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

No problems, aside from those noted above, were found with any of the reported sample data.

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-01D (Lab. #: 9731351)					
Total Metals	(ug/l)				
Aluminum	P 23.900 B	105.00 B	104.60 B		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	2.40 U	2.40 U		
Barium	P 0.300 U	111.00 B	110.80 B		
Beryllium	P 0.100 B	0.13 B	0.10 B		
Cadmium	P 0.300 U	0.30 U	0.30 U		
Calcium	P 5.167 B	35,300.00	35,310.00		
Chromium	P 0.400 U	0.53 B	0.50 B		
Cobalt	P 1.100 U	1.30 B	1.30 B		
Copper	P 0.700 U	1.90 B	1.90 B		
Iron	P -2.033 B	110.00	110.00		
Lead	P 1.000 U	1.30 B	1.30 B		
Magnesium	P 9.233 B	10,700.00	10,730.00		
Manganese	P 0.300 U	132.00	132.10		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	2.20 B	2.20 B		
Potassium	P 8.400 U	6,780.00	9,780.00		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	61,000.00	61,000.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	1.20 U	1.20 U		
Zinc	P 4.833 B	39.00 E	39.00 E	J qualify	51
Boron	P 12.733 B	40.10 B	40.10 B		
Cyanide	CA 10.000 U	10.00 U	10.00 U		
Sample MW-01I (Lab. #: 9731352)					
Total Metals	(ug/l)				
Aluminum	P 23.900 B	60.80 B	60.80 B		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	2.40 U	2.40 U		
Barium	P 0.300 U	92.30 B	93.20 B		
Beryllium	P 0.100 B	0.10 B	0.10 B		
Cadmium	P 0.300 U	0.30 U	0.30 U		
Calcium	P 5.167 B	7,510.00	7,515.00		
Chromium	P 0.400 U	0.40 U	0.40 U		
Cobalt	P 1.100 U	2.70 B	2.70 B		
Copper	P 0.700 U	0.93 B	0.90 B		
Iron	P -2.033 B	80.10 B	80.20 B		
Lead	P 1.000 U	1.00 U	1.00 U		
Magnesium	P 9.233 B	3,720.00 B	3,719.00 B		
Manganese	P 0.300 U	286.00	286.40		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	5.10 B	5.00 B		
Potassium	P 8.400 U	4,250.00 B	4,248.00 B		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	120,000.00	120,100.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	1.20 U	1.20 U		
Zinc	P 4.833 B	29.50 E	29.50 E	J qualify	51
Boron	P 12.733 B	151.00	151.10		
Cyanide	CA 10.000 U	10.00 U	10.00 U		

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA		Qualifiers	Footnotes
				Reported Conc.	Decision		
Sample MW-01S (Lab. #: 9731353)							
Total Metals	(ug/l)						
Aluminum	P	23.900 B	378.00	378.10			
Antimony	P	3.000 U	3.00 U	3.00 U			
Arsenic	P	2.400 U	2.50 B	2.48 B	J	qualify	21
Barium	P	0.300 U	75.50 B	75.50 B			
Beryllium	P	0.100 B	0.20 B	0.20 B			
Cadmium	P	0.300 U	0.30 U	0.30 U			
Calcium	P	5.167 B	93,000.00	92,960.00			
Chromium	P	0.400 U	2.70 B	2.70 B			
Cobalt	P	1.100 U	2.50 B	2.50 B			
Copper	P	0.700 U	3.20 B	3.10 B			
Iron	P	-2.033 B	6,710.00	9,707.00			
Lead	P	1.000 U	12.70	12.74			
Magnesium	P	9.233 B	8,940.00	8,938.00			
Manganese	P	0.300 U	944.00	943.50			
Mercury	CV	0.100 U	0.12 B	0.12 B			
Nickel	P	1.300 U	1.30 U	1.30 U			
Potassium	P	8.400 U	10,000.00	10,020.00			
Selenium	P	2.800 U	2.80 U	2.80 U			
Silver	P	0.900 U	0.90 U	0.90 U			
Sodium	P	19.567 B	51,400.00	51,360.00			
Thallium	P	2.600 U	2.60 U	2.60 U			
Vanadium	P	1.200 U	1.20 B	1.20 B			
Zinc	P	4.833 B	37.00 E	37.00 E	J	qualify	51
Boron	P	12.733 B	163.00	163.00			
Cyanide	CA	10.000 U	10.00 U	10.00 U			
Sample MW-02D (Lab. #: 9731610)							
Total Metals	(ug/l)						
Aluminum	P	23.900 B	33.50 B	33.50 B			
Antimony	P	3.000 U	3.00 U	3.00 U			
Arsenic	P	2.400 U	2.40 U	2.40 U			
Barium	P	0.300 U	6.90 B	6.90 B			
Beryllium	P	0.100 B	0.10 B	0.10 B			
Cadmium	P	0.300 U	0.30 U	0.30 U			
Calcium	P	5.167 B	4,750.00 B	4,749.00 B			
Chromium	P	0.400 U	0.40 U	0.40 U			
Cobalt	P	1.100 U	1.10 U	1.10 U			
Copper	P	0.700 U	0.70 U	0.70 U			
Iron	P	-2.033 B	33.20 B	33.20 B			
Lead	P	1.000 U	1.00 U	1.00 U			
Magnesium	P	9.233 B	2,220.00 B	2,219.00 B			
Manganese	P	0.300 U	54.80	54.80			
Mercury	CV	0.100 U	0.10 U	0.10 U			
Nickel	P	1.300 U	1.30 U	1.30 U			
Potassium	P	8.400 U	636.00 B	635.90 B			
Selenium	P	2.800 U	2.80 U	2.80 U			
Silver	P	0.900 U	0.90 U	0.90 U			
Sodium	P	19.567 B	8,120.00	8,124.00			
Thallium	P	2.600 U	2.60 U	2.60 U			
Vanadium	P	1.200 U	1.20 U	1.20 U			
Zinc	P	4.833 B	27.50 E	27.20 E	J	qualify	51
Boron	P	12.733 B	28.70 B	28.80 B			
Cyanide	CA	10.000 U	10.00 U	10.00 U			

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Blank	Lab.	QA	Qualifiers	Footnotes
		Conc.	Reported	Validation		
		(PPB)	Conc.	Reported		
			(PPB)	Conc.		
				Decision		
Sample MW-02I (Lab. #: 9731511)						
Total Metals		(ug/l)				
Aluminum	P	23.900 B	80.20 B	80.20 B		
Antimony	P	3.000 U	3.00 U	3.00 U		
Arsenic	P	2.400 U	2.40 U	2.40 U		
Barium	P	0.300 U	47.90 B	47.80 B		
Beryllium	P	0.100 B	0.10 B	0.10 B		
Cadmium	P	0.300 U	0.30 U	0.30 U		
Calcium	P	5.167 B	4,990.00 B	4,991.00 B		
Chromium	P	0.400 U	0.70 B	0.70 B		
Cobalt	P	1.100 U	1.10 B	1.10 B		
Copper	P	0.700 U	3.60 B	3.60 B		
Iron	P	-2.033 B	279.00	249.20		
Lead	P	1.000 U	3.50	3.50		
Magnesium	P	9.233 B	685.00 B	685.20 B		
Manganese	P	0.300 U	40.90	40.90		
Mercury	CV	0.100 U	0.10 U	0.10 U		
Nickel	P	1.300 U	1.30 U	1.30 U		
Potassium	P	8.400 U	3,100.00 B	3,097.00 B		
Selenium	P	2.800 U	2.80 U	2.80 U		
Silver	P	0.900 U	0.90 U	0.90 U		
Sodium	P	19.567 B	15,300.00	15,320.00		
Thallium	P	2.600 U	2.60 U	2.60 U		
Vanadium	P	1.200 U	1.20 U	1.20 U		
Zinc	P	4.833 B	37.00 E	37.00 E	J	quality
Boron	P	12.733 B	81.40 B	81.40 B		51
Cyanide	CA	10.000 U	10.00 U	10.00 U		
Sample MW-02S (Lab. # 9731512)						
Total Metals		(ug/l)				
Aluminum	P	23.900 B	146.00 B	146.00 B		
Antimony	P	3.000 U	3.00 U	3.00 U		
Arsenic	P	2.400 U	2.40 U	2.40 U		
Barium	P	0.300 U	26.30 B	26.30 B		
Beryllium	P	0.100 B	0.77 B	0.80 B		
Cadmium	P	0.300 U	0.57 B	0.50 B		
Calcium	P	5.167 B	27,000.00	26,980.00		
Chromium	P	0.400 U	1.10 B	1.10 B		
Cobalt	P	1.100 U	1.50 B	1.50 B		
Copper	P	0.700 U	4.00 B	4.00 B		
Iron	P	-2.033 B	312.00	312.50		
Lead	P	1.000 U	2.10 B	2.07 B		
Magnesium	P	9.233 B	2,890.00 B	2,893.00 B		
Manganese	P	0.300 U	5.60 B	5.60 B		
Mercury	CV	0.100 U	0.10 U	0.10 U		
Nickel	P	1.300 U	1.30 U	1.30 U		
Potassium	P	8.400 U	4,660.00 B	4,657.00 B		
Selenium	P	2.800 U	2.80 U	2.80 U		
Silver	P	0.900 U	0.90 U	0.90 U		
Sodium	P	19.567 B	18,900.00	18,890.00		
Thallium	P	2.600 U	2.60 U	2.60 U		
Vanadium	P	1.200 U	1.20 U	1.20 U		
Zinc	P	4.833 B	20.80 E	20.80 E	J	quality
Boron	P	12.733 B	43.40 B	43.30 B		51
Cyanide	CA	10.000 U	10.00 U	10.00 U		

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-04D (Lab. #: 9731715)					
Total Metals	(ug/l)				
Aluminum	P 23.900 B	52.90 B	52.90 B		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	7.60 B	7.58 B	J qualify	21
Barium	P 0.300 U	186.00 B	186.00 B		
Beryllium	P 0.100 B	0.10 B	0.10 B		
Cadmium	P 0.300 U	0.30 U	0.30 U		
Calcium	P 5.167 B	56,100.00	56,130.00		
Chromium	P 0.400 U	0.40 U	0.40 U		
Cobalt	P 1.100 U	14.90 B	14.90 B		
Copper	P 0.700 U	0.70 U	0.70 U		
Iron	P -2.033 B	66,000.00	65,980.00		
Lead	P 1.000 U	1.00 U	1.00 U		
Magnesium	P 9.233 B	8,830.00	8,829.00		
Manganese	P 0.300 U	1,700.00	1,704.00		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	7.40 B	7.40 B		
Potassium	P 8.400 U	14,000.00	13,980.00		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	21,100.00	21,005.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	1.20 U	1.20 U		
Zinc	P 4.833 B	85.90 E	85.90 E	J qualify	51
Boron	P 12.733 B	358.00	358.20		
Cyanide	CA 10.000 U	10.00 U	10.00 U		
Sample MW-04I (Lab. #: 9731853)					
Total Metals	(ug/l)				
Aluminum	P 23.900 B	365.00	364.90		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	10.10	10.06	J qualify	21
Barium	P 0.300 U	128.00 B	128.40 B		
Beryllium	P 0.100 B	0.10 B	0.10 B		
Cadmium	P 0.300 U	0.30 U	0.30 U		
Calcium	P 5.167 B	53,200.00	53,240.00		
Chromium	P 0.400 U	3.70 B	3.70 B		
Cobalt	P 1.100 U	2.50 B	2.50 B		
Copper	P 0.700 U	5.20 B	5.20 B		
Iron	P -2.033 B	31,800.00	31,970.00		
Lead	P 1.000 U	3.70	3.70		
Magnesium	P 9.233 B	9,850.00	9,583.00		
Manganese	P 0.300 U	480.00	479.90		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	3.90 B	3.90 B		
Potassium	P 8.400 U	69,400.00	31,790.00		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	29,200.00	29,220.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	4.40 B	4.40 B		
Zinc	P 4.833 B	96.10 U	96.10 U	J qualify	51
Boron	P 12.733 B	245.00	244.60		
Cyanide	CA 10.000 U	10.00 U	10.00 U		

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-04S (Lab. #: 9731854)					
Total Metals	(ug/l)				
Aluminum	P 23.900 B	574.00	574.20		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	11.40	11.41	J qualify	21
Barium	P 0.300 U	441.00	440.80		
Beryllium	P 0.100 B	0.20 B	0.20 B		
Cadmium	P 0.300 U	0.30 U	0.30 U		
Calcium	P 5.167 B	152,000.00	152,500.00		
Chromium	P 0.400 U	1.60 B	1.60 B		
Cobalt	P 1.100 U	2.10 B	2.10 B		
Copper	P 0.700 U	2.50 B	2.40 B		
Iron	P -2.033 B	56,800.00	56,750.00		
Lead	P 1.000 U	1.00 U	1.00 U		
Magnesium	P 9.233 B	22,600.00	22,630.00		
Manganese	P 0.300 U	1,520.00	1,518.00		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	1.30 U	1.30 U		
Potassium	P 8.400 U	30,800.00	30,790.00		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	29,900.00	29,880.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	3.20 B	3.20 B		
Zinc	P 4.833 B	32.30 E	32.30 E	J qualify	51
Boron	P 12.733 B	482.00	482.00		
Cyanide	CA 10.000 U	10.00 U	10.00 U		

Sample MW-05D (Lab. #: 9731855)

Total Metals	(ug/l)				
Aluminum	P 23.900 B	241.00	241.00		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	2.40 U	2.40 U		
Barium	P 0.300 U	117.00 B	117.20 B		
Beryllium	P 0.100 B	0.17 B	0.20 B		
Cadmium	P 0.300 U	0.30 B	0.30 B		
Calcium	P 5.167 B	47,300.00	47,250.00		
Chromium	P 0.400 U	2.90 B	2.90 B		
Cobalt	P 1.100 U	4.60 B	4.60 B		
Copper	P 0.700 U	4.80 B	4.80 B		
Iron	P -2.033 B	374.00	373.70		
Lead	P 1.000 U	1.20 B	1.21 B		
Magnesium	P 9.233 B	12,400.00	12,390.00		
Manganese	P 0.300 U	17,200.00	17,240.00		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	5.10 B	5.10 B		
Potassium	P 8.400 U	20,200.00	20,170.00		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	26,500.00	26,480.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	1.20 U	1.20 U		
Zinc	P 4.833 B	283.00 E	283.40 E	J qualify	51
Boron	P 12.733 B	148.00	147.80		
Cyanide	CA 10.000 U	10.00 U	10.00 U		

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-05I (Lab. #: 9731856)						
Total Metals	(ug/l)					
Aluminum	P	23.900 B	330.00	329.90		
Antimony	P	3.000 U	3.00 U	3.00 U		
Arsenic	P	2.400 U	4.30 B	4.35 B	J	21
Barium	P	0.300 U	17.80 B	17.80 B		
Beryllium	P	0.100 B	0.10 B	0.10 B		
Cadmium	P	0.300 U	0.30 U	0.30 U		
Calcium	P	5.167 B	8,280.00	8,283.00		
Chromium	P	0.400 U	3.30 B	3.30 B		
Cobalt	P	1.100 U	1.10 U	1.10 U		
Copper	P	0.700 U	2.50 B	2.50 B		
Iron	P	-2.033 B	7,250.00	7,248.00		
Lead	P	1.000 U	3.00	3.05		
Magnesium	P	9.233 B	1,260.00 B	1,256.00 B		
Manganese	P	0.300 U	1,080.00	1,075.00		
Mercury	CV	0.100 U	0.10 U	0.10 U		
Nickel	P	1.300 U	3.60 B	3.60 B		
Potassium	P	8.400 U	4,820.00 B	4,821.00 B		
Selenium	P	2.800 U	2.80 U	2.80 U		
Silver	P	0.900 U	0.90 U	0.90 U		
Sodium	P	19.567 B	12,500.00	12,510.00		
Thallium	P	2.600 U	2.60 U	2.60 U		
Vanadium	P	1.200 U	1.20 U	1.20 U		
Zinc	P	4.833 B	95.30 E	95.30 E	J	51
Boron	P	12.733 B	90.80 B	90.80 B		
Cyanide	CA	10.000 U	10.00 U	Cyanide U		
Sample MW-05S (Lab. #: 9731857)						
Total Metals	(ug/l)					
Aluminum	P	23.900 B	121.00 B	120.50 B		
Antimony	P	3.000 U	3.00 U	3.00 U		
Arsenic	P	2.400 U	2.40 U	2.40 U		
Barium	P	0.300 U	296.00	296.10		
Beryllium	P	0.100 B	0.13 B	0.10 B		
Cadmium	P	0.300 U	0.30 U	0.30 U		
Calcium	P	5.167 B	105,000.00	104,800.00		
Chromium	P	0.400 U	6.50 B	6.50 B		
Cobalt	P	1.100 U	1.30 B	1.30 B		
Copper	P	0.700 U	0.70 U	0.70 U		
Iron	P	-2.033 B	32,000.00	32,020.00		
Lead	P	1.000 U	1.00 U	1.00 U		
Magnesium	P	9.233 B	17,900.00	17,860.00		
Manganese	P	0.300 U	3,370.00	3,375.00		
Mercury	CV	0.100 U	0.10 U	0.10 U		
Nickel	P	1.300 U	4.60 B	4.60 B		
Potassium	P	8.400 U	20,600.00	20,600.00		
Selenium	P	2.800 U	2.80 U	2.80 U		
Silver	P	0.900 U	0.90 U	0.90 U		
Sodium	P	19.567 B	35,000.00	35,010.00		
Thallium	P	2.600 U	2.60 U	2.60 U		
Vanadium	P	1.200 U	1.80 B	1.80 B		
Zinc	P	4.833 B	25.00 E	25.00 E	J	51
Boron	P	12.733 B	323.00	323.20		
Cyanide	CA	10.000 U	10.00 U	10.00 U		

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Blank	Lab.	QA			
		Conc.	Reported	Validation			
		(PPB)	Conc.	Reported			
			(PPB)	Conc.	Qualifiers	Footnotes	
				Decision			
Sample MW-06D (Lab. #: 9731716)							
Total Metals	(ug/l)						
Aluminum	P	23.900 B	320.00	320.00			
Antimony	P	3.000 U	3.00 U	3.00 U			
Arsenic	P	2.400 U	3.20 B	3.22 B	J	quality	21
Barium	P	0.300 U	15.10 B	15.00 B			
Beryllium	P	0.100 B	0.10 U	0.10 U			
Cadmium	P	0.300 U	0.30 U	0.30 U			
Calcium	P	5.167 B	5,070.00	5,068.00			
Chromium	P	0.400 U	1.30 B	1.30 B			
Cobalt	P	1.100 U	6.60 B	6.70 B			
Copper	P	0.700 U	2.50 B	2.50 B			
Iron	P	-2.033 B	5,220.00	5,221.00			
Lead	P	1.000 U	1.00 U	1.00 U			
Magnesium	P	9.233 B	2,040.00 B	2,044.00 B			
Manganese	P	0.300 U	6,800.00	6,801.00			
Mercury	CV	0.100 U	0.10 U	0.10 U			
Nickel	P	1.300 U	3.30 B	3.30 B			
Potassium	P	8.400 U	1,140.00 B	1,144.00 B			
Selenium	P	2.800 U	2.80 U	2.80 U			
Silver	P	0.900 U	0.90 U	0.90 U			
Sodium	P	19.567 B	11,600.00	11,650.00			
Thallium	P	2.600 U	2.60 U	2.60 U			
Vanadium	P	1.200 U	1.20 U	1.20 U			
Zinc	P	4.833 B	75.10 E	75.10 E	J	quality	51
Boron	P	12.733 B	33.20 B	33.20 B			
Cyanide	CA	10.000 U	10.00 U	10.00 U			
Sample MW-06I (Lab. #: 9731717)							
Total Metals	(ug/l)						
Aluminum	P	23.900 B	140.00 B	140.10 B			
Antimony	P	3.000 U	3.00 U	3.00 U			
Arsenic	P	2.400 U	4.30 B	4.39 B	J	quality	21
Barium	P	0.300 U	107.00 B	106.70 B			
Beryllium	P	0.100 B	0.10 B	0.10 B			
Cadmium	P	0.300 U	0.30 U	0.30 U			
Calcium	P	5.167 B	33,300.00	33,310.00			
Chromium	P	0.400 U	0.73 B	0.70 B			
Cobalt	P	1.100 U	6.40 B	6.40 B			
Copper	P	0.700 U	3.90 B	3.90 B			
Iron	P	-2.033 B	6,490.00	6,490.00			
Lead	P	1.000 U	1.00 B	1.04 B			
Magnesium	P	9.233 B	3,810.00 B	3,814.00 B			
Manganese	P	0.300 U	2,100.00	2,103.00			
Mercury	CV	0.100 U	0.10 U	0.10 U			
Nickel	P	1.300 U	2.00 B	2.00 B			
Potassium	P	8.400 U	7,680.00	7,684.00			
Selenium	P	2.800 U	2.80 U	2.80 U			
Silver	P	0.900 U	0.90 U	0.90 U			
Sodium	P	19.567 B	14,000.00	13,980.00			
Thallium	P	2.600 U	2.60 U	2.60 U			
Vanadium	P	1.200 U	1.20 U	1.20 U			
Zinc	P	4.833 B	61.40 E	61.40 E	J	quality	51
Boron	P	12.733 B	120.00	119.80			
Cyanide	CA	10.000 U	10.00 U	10.00 U			

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Blank	Lab.	QA			
		Conc.	Reported	Validation			
		(PPB)	Conc.	Reported			
			(PPB)	Conc.	Qualifiers	Footnotes	
				Decision			
Sample MW-06S (Lab. #: 9731718)							
Total Metals	(ug/l)						
Aluminum	P	23.900 B	96.20 B	96.20 B			
Antimony	P	3.000 U	3.00 U	3.00 U			
Arsenic	P	2.400 U	9.60 B	9.64 B	J	qualify	21
Barium	P	0.300 U	306.00	306.30			
Beryllium	P	0.100 B	0.10 B	0.10 B			
Cadmium	P	0.300 U	0.30 U	0.30 U			
Calcium	P	5.167 B	131,000.00	131,200.00			
Chromium	P	0.400 U	1.30 B	1.40 B			
Cobalt	P	1.100 U	2.20 B	2.20 B			
Copper	P	0.700 U	0.70 U	0.70 U			
Iron	P	-2.033 B	58,700.00	58,730.00			
Lead	P	1.000 U	1.00 U	1.00 U			
Magnesium	P	9.233 B	16,400.00	16,430.00			
Manganese	P	0.300 U	837.00	836.90			
Mercury	CV	0.100 U	0.10 U	0.10 U			
Nickel	P	1.300 U	1.30 U	1.30 U			
Potassium	P	8.400 U	18,200.00	18,230.00			
Selenium	P	2.800 U	2.80 U	2.80 U			
Silver	P	0.900 U	0.90 U	0.90 U			
Sodium	P	19.567 B	18,900.00	18,890.00			
Thallium	P	2.600 U	2.60 U	2.60 U			
Vanadium	P	1.200 U	1.20 U	1.20 U			
Zinc	P	4.833 B	14.20 BE	14.20 BE	J	qualify	51
Boron	P	12.733 B	405.00	404.90			
Cyanide	CA	10.000 U	10.00 U	10.00 U			
Sample MW-07D (Lab. #: 9731513)							
Total Metals	(ug/l)						
Aluminum	P	23.900 B	1,420.00	1,424.00			
Antimony	P	3.000 U	3.00 U	3.00 U			
Arsenic	P	2.400 U	2.40 U	2.40 U			
Barium	P	0.300 U	11.40 B	11.40 B			
Beryllium	P	0.100 B	0.13 B	0.10 B			
Cadmium	P	0.300 U	0.30 U	0.30 U			
Calcium	P	5.167 B	1,210.00 B	1,206.00 B			
Chromium	P	0.400 U	3.40 B	3.40 B			
Cobalt	P	1.100 U	1.50 B	1.20 B			
Copper	P	0.700 U	7.60 B	7.60 B			
Iron	P	-2.033 B	1,560.00	1,561.00			
Lead	P	1.000 U	3.00	2.96			
Magnesium	P	9.233 B	609.00 B	609.40 B			
Manganese	P	0.300 U	55.70	55.60			
Mercury	CV	0.100 U	0.10 U	0.10 U			
Nickel	P	1.300 U	12.90 B	12.90 B			
Potassium	P	8.400 U	569.00 B	568.90 B			
Selenium	P	2.800 U	2.80 U	2.80 U			
Silver	P	0.900 U	0.90 U	0.90 U			
Sodium	P	19.567 B	16,800.00	16,790.00			
Thallium	P	2.600 U	2.60 U	2.60 U			
Vanadium	P	1.200 U	2.60 B	2.60 B			
Zinc	P	4.833 B	207.00 E	206.90 E	J	qualify	51
Boron	P	12.733 B	38.80 B	38.90 B			
Cyanide	CA	10.000 U	10.00 U	10.00 U			

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-07I (Lab. #: 9731719)					
Total Metals	(ug/l)				
Aluminum	P 23.900 B	90.10 B	90.10 B		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	2.40 U	2.40 U		
Barium	P 0.300 U	32.20 B	32.20 B		
Beryllium	P 0.100 B	0.10 U	0.10 U		
Cadmium	P 0.300 U	0.47 B	0.50 B		
Calcium	P 5.167 B	8,890.00	8,888.00		
Chromium	P 0.400 U	0.80 B	0.80 B		
Cobalt	P 1.100 U	2.30 B	2.30 B		
Copper	P 0.700 U	1.60 B	1.30 B		
Iron	P -2.033 B	396.00	396.30		
Lead	P 1.000 U	2.80 B	2.84 B		
Magnesium	P 9.233 B	1,300.00 B	1,305.00 B		
Manganese	P 0.300 U	519.00	519.00		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	1.80 B	1.80 B		
Potassium	P 8.400 U	3,840.00 B	3,840.00 B		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	6,950.00	6,947.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	1.20 U	1.20 U		
Zinc	P 4.833 B	51.70 E	51.70 E	J qualify	51
Boron	P 12.733 B	46.40 B	46.40 B		
Cyanide	CA 10.000 U	10.00 U	10.00 U		
Sample MW-07S (Lab. #: 9731514)					
Total Metals	(ug/l)				
Aluminum	P 23.900 B	276.00	275.80		
Antimony	P 3.000 U	3.00 U	3.00 U		
Arsenic	P 2.400 U	2.40 U	2.40 U		
Barium	P 0.300 U	18.70 B	18.70 B		
Beryllium	P 0.100 B	0.10 B	0.10 B		
Cadmium	P 0.300 U	0.30 U	0.30 U		
Calcium	P 5.167 B	34,100.00	34,090.00		
Chromium	P 0.400 U	4.10 B	4.10 B		
Cobalt	P 1.100 U	1.10 B	1.10 B		
Copper	P 0.700 U	1.80 B	1.80 B		
Iron	P -2.033 B	610.00	609.90		
Lead	P 1.000 U	1.00 U	1.00 U		
Magnesium	P 9.233 B	1,890.00 B	1,888.00 B		
Manganese	P 0.300 U	27.00	27.00		
Mercury	CV 0.100 U	0.10 U	0.10 U		
Nickel	P 1.300 U	2.40 B	2.40 B		
Potassium	P 8.400 U	5,730.00	5,725.00		
Selenium	P 2.800 U	2.80 U	2.80 U		
Silver	P 0.900 U	0.90 U	0.90 U		
Sodium	P 19.567 B	8,170.00	8,175.00		
Thallium	P 2.600 U	2.60 U	2.60 U		
Vanadium	P 1.200 U	1.20 U	1.20 U		
Zinc	P 4.833 B	16.60 B	16.50 B	J qualify	51
Boron	P 12.733 B	35.90 B	35.90 B		
Cyanide	CA 10.000 U	10.00 U	10.00 U		

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill

Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Laboratory Reference Numbers:

Samples Received 10/24

MW-01D	9731351
MW-01I	9731352
MW-01S	9731353

Samples Received 10/28

MW-02D	9731510
MW-02I	9731511
MW-02S	9731512
MW-02SMS	9731512MS
MW-02SMSD	9731512MSD
MW-07D	9731513
MW-07S	9731714

Samples Received 10/29

MW-04D	9731715
MW-06D	9731716
MW-06I	9731717
MW-06S	9731718
MW-07I	9731519

Samples Received 10/30

MW-04I	9731853
MW-04S	9731854
MW-05D	9731855
MW-05I	9731856
MW-05S	9731857

Water samples were received for analyses of the pesticide and PCB TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Laboratory Blanks
 - Field Blanks
 - Surrogate Recoveries
- * - Surrogate Retention Times
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Calibrations
- * - Analyte Resolutions
- * - Performance Evaluation Mixtures
- * - IND A and IND B Standards
- * - Florisil Cartridge Check
- * - GPC Calibration
- * - Compound Identification
 - Method Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The recovery of the DCB surrogate was less than 10% in the analyses of sample MW-071 on both columns. No pesticides or PCBs were detected in the sample and the data would be considered to be technically unusable due to the EPA data validation guidelines (Section 3.4 HW-6, Jan. 1992). The sample was flagged with the "R" qualifier and footnoted with #85 in the data validation summary table

The instrument detection limits were analyzed approximately 10 months prior to the analysis of the samples. The NYS DEC ASP program requires that these be analyzed every 6 months.

No other problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
December 20, 1997

Holding Times

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

All surrogate recoveries were within the required quality assurance limits with the following exceptions:

	TCX 1	TCX 2	DCB 1	DCB 2
MW-04S			17%	18%
MW-06D			21%	21%
MW-06S			23%	22%
MW-07I			9%	8%

The recovery of the DCB surrogate was less than 10% in the analyses of sample MW-07I on both columns. No pesticides or PCBs were detected in the sample and the data would be considered to be unusable due to the EPA data validation guidelines (Section 3.4 HW-6, Jan. 1992). The sample was flagged with the "R" qualifier and footnoted with #85 in the data validation summary table

Data for the remaining samples were not qualified in the data validation summary table since only one surrogate was outside of the quality assurance limits. EPA data validation guidelines do not require the data to be qualified for a low recovery of one surrogate.

It is possible that the concentrations of the reported pesticides may have been underestimated very low concentrations of pesticides and PCBs may have been overlooked in these samples.

Matrix Spike / Matrix Spike Duplicate

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits.

Blank Spike

Three blank spikes were analyzed with this sample delivery group. All of the blank spike recoveries were within the acceptable limits.

Initial Calibrations

No problems were found with any of the initial calibrations.

The percent RSD of each of the single component pesticides must be less than 20%. The percent RSD of the two surrogates must be less than or equal to 30%. Up to two single compound target compounds per column may exceed the 20% limit for the %RSD, but those compounds must have a percent RSD of less than or equal to 30.0%. All of these requirements were met in the initial calibration.

Analyte Resolution

All percent resolutions were greater than 60% on both the RTX-5 and RTX-35 columns for both calibrations.

Performance Evaluation Mixtures

The relative percent difference of the calculated amount and the true amount for each of the single component pesticides and surrogates in the PEMs must be less than or equal to 25%.

No problems were found with any of the performance evaluation mixtures.

Continuing Calibrations - IND A & IND B

All percent resolutions were greater than 90% on both the DB-608 and DB-1701 columns.

The relative percent difference of the calculated amount and the true amount for each of the single component pesticides and surrogates in the IND A and IND B standards must be less than or equal to 25%.

No other problems were detected with the continuing calibrations.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

Florisil Cartridge Check

All recoveries were within the 80% - 120% quality assurance limits.

The florisil cartridge check was performed on 1/20/97.

GPC Calibration

All of the GPC summary data were within the acceptable limits.

Method Blanks

No compounds were detected in either of the three the method blanks.

Calibration Blanks

No compounds were detected in any of the calibration blanks.

Field Blanks

Field blanks were not collected with this sample delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 10 months prior to the analysis of the samples. The NYS DEC ASP program requires that these be analyzed every 6 months.

No other problems were found with the reported instrument detection limits.

Sample Results

MW-071 (Lab. #: 9731510)

The recovery of the DCB surrogate was less than 10% in the analyses of sample MW-071 on both columns. No pesticides or PCBs were detected in the sample and the data would be considered to be technically unusable due to the EPA data validation guidelines (Section 3.4 HW-6, Jan. 1992). The sample was flagged with the "R" qualifier and footnoted with #85 in the data validation summary table

No other problems were detected with any of the samples.

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW01D (Lab. #: 9731351) Received 10/24					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW011 (Lab. #: 9731352) Received 10/24					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

**Data Validation Summary Table
For the Sonia Road Landfill**

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision		
Sample MW-01S (Lab. #: 9731353) received 10/24					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW02D (Lab. #: 9731510) Received 10/28					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW02I (Lab. #: 9731511) Received 10/28					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	Qualifiers
Sample MW02S (Lab. #: 9731612) Received 10/28				
Pesticides & PCBs	(Undiluted)			
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 Aldahyde	0.10 U	0.10 U	0.10 U	
alpha-Chlordane	0.050 U	0.050 U	0.050 U	
gamma-Chlordane	0.050 U	0.050 U	0.050 U	
Toxaphene	5.0 U	5.0 U	5.0 U	
Atroclor-1016	1.0 U	1.0 U	1.0 U	
Atroclor-1221	2.0 U	2.0 U	2.0 U	
Atroclor-1232	1.0 U	1.0 U	1.0 U	
Atroclor-1242	1.0 U	1.0 U	1.0 U	
Atroclor-1248	1.0 U -	1.0 U	1.0 U	
Atroclor-1254	1.0 U	1.0 U	1.0 U	
Atroclor-1260	1.0 U	1.0 U	1.0 U	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW07D (Lab. #: 9731613) Received 10/28					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision		
Sample MW07S (Lab. #: 9731514) Received 10/28					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW04D (Lab. #: 9731715) Received 10/29					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW06D (Lab. #: 9731716) Received 10/29					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW06I (Lab. #: 9731717) Received 10/29					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW06S (Lab. #: 9731718) Received 10/29					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW071 (Lab. #: 9731719) Received 10/29					
Pesticides & PCBs	(Undiluted)				
alpha-BHC	0.050 U	0.050 U	0.050 U	R reject	85
beta-BHC	0.050 U	0.050 U	0.050 U	R reject	85
delta-BHC	0.050 U	0.050 U	0.050 U	R reject	85
gamma-BHC (Lindane)	0.050 U	0.050 U	0.050 U	R reject	85
Heptachlor	0.050 U	0.050 U	0.050 U	R reject	85
Aldrin	0.050 U	0.050 U	0.050 U	R reject	85
Heptachlor Epoxide	0.050 U	0.050 U	0.050 U	R reject	85
Endosulfan I	0.050 U	0.050 U	0.050 U	R reject	85
Dieldrin	0.10 U	0.10 U	0.10 U	R reject	85
4,4'- DDE	0.10 U	0.10 U	0.10 U	R reject	85
Endrin	0.10 U	0.10 U	0.10 U	R reject	85
Endosulfan II	0.10 U	0.10 U	0.10 U	R reject	85
4,4' - DDD	0.10 U	0.10 U	0.10 U	R reject	85
Endosulfan Sulfate	0.10 U	0.10 U	0.10 U	R reject	85
4,4'-DDT	0.10 U	0.10 U	0.10 U	R reject	85
Methoxychlor	0.50 U	0.50 U	0.50 U	R reject	85
Endrin Ketone	0.10 U	0.10 U	0.10 U	R reject	85
Endrin Aldehyde	0.10 U	0.10 U	0.10 U	R reject	85
alpha-Chlordane	0.050 U	0.050 U	0.050 U	R reject	85
gamma-Chlordane	0.050 U	0.050 U	0.050 U	R reject	85
Toxaphene	5.0 U	5.0 U	5.0 U	R reject	85
Aroclor-1016	1.0 U	1.0 U	1.0 U	R reject	85
Aroclor-1221	2.0 U	2.0 U	2.0 U	R reject	85
Aroclor-1232	1.0 U	1.0 U	1.0 U	R reject	85
Aroclor-1242	1.0 U	1.0 U	1.0 U	R reject	85
Aroclor-1248	1.0 U	1.0 U	1.0 U	R reject	85
Aroclor-1254	1.0 U	1.0 U	1.0 U	R reject	85
Aroclor-1260	1.0 U	1.0 U	1.0 U	R reject	85

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW04S (Lab. #: 9731854) Received 10/30					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

**Data Validation Summary Table
For the Sonia Road Landfill**

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision		
Sample MW05D (Lab. #: 9731855) Received 10/30					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW051 (Lab. #: 9731856) Received 10/30					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3.
Samples Received September 19th and 24th, 1997
Sample Delivery Group: IRS006

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW05S (Lab. #: 9731857) Received 10/30					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Initial Calibration - 11/7																	Sheet1																				
INDAL																																					
Page: 217		Date: 11/7/97		Time: 16:30																																	
Page:		Date:		Time:																																	
								RTX-35						RTX-5				RTX-35																			
								#2 Calc.						RT Window #1				RT Window #2																			
								Cal. Fac.		Conc.		R/C		From		To		OK		From		To		OK		CF 1		CF 2									
		RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		From		To		OK		From		To		OK											
alpha-BHC		8.56		10.94		25,664		45,065		2,566,400		0.0050		1.00		4,506,500		0.0050		1.00		8.51		8.61		10.89		10.99		2,566,371		4,506,541					
beta-BHC																9.36		9.46				12.57		12.67				1,544,671		2,763,934							
delta-BHC																10.31		10.41				13.82		13.92				2,268,723		3,738,838							
gamma-BHC (Lindane)		9.58		12.31		25,386		42,611		2,538,600		0.0050		1.00		4,261,100		0.0050		1.00		9.53		9.63		12.26		12.36		2,538,622		4,261,102					
Heptachlor		11.84		13.70		26,886		44,154		2,688,600		0.0050		1.00		4,415,400		0.0050		1.00		11.79		11.89		13.65		13.75		2,688,550		4,415,387					
Aldrin																12.91		13.01				14.65		14.75				2,315,651		3,937,878							
Heptachlor Epoxide																14.16		14.30				16.01		16.15				2,280,773		3,587,050							
Endosulfan I										0		0.0050		0.00		0		0.0050		0.00		15.06		15.20		16.93		17.07		1,885,502		3,095,271					
Dieldrin										0		0.0100		0.00		0		0.0100		0.00		15.68		15.82		17.70		17.84		1,851,506		3,161,246					
4,4'- DDE																15.59		15.73				17.45		17.59				1,767,135		3,201,176							
Endrin										0		0.0100		0.00		0		0.0100		0.00		16.21		16.35		18.58		18.72		1,586,354		1,827,424					
Endosulfan II																16.43		16.57				19.07		19.21				1,704,645		2,392,019							
4,4' - DDD										0		0.0100		0.00		0		0.0100		0.00		16.59		16.73		18.87		19.01		1,327,904		2,426,272					
Endosulfan Sulfate																17.46		17.60				20.29		20.43				1,350,444		2,115,321							
4,4'-DDT										0		0.0100		0.00		0		0.0100		0.00		17.48		17.62		19.69		19.83		1,498,086		2,370,811					
Methoxychlor										0		0.0500		0.00		0		0.0500		0.00		18.86		17.00		21.81		21.95		843,614		1,009,285					
Endrin Ketone																18.63		18.77				22.20		22.34				1,760,472		2,238,586							
Endrin Aldehyde																16.89		17.03				19.86		20.00				1,557,045		2,169,011							
alpha-Chlordane																15.12		15.26				16.88		17.02				2,248,284		3,542,655							
gamma-Chlordane																14.77		14.91				16.50		16.64				2,260,682		3,535,934							
TCX		7.34		8.56		22,079		42589				0.0050		####				0.0050		####		7.28		7.38		8.51		8.61		2,207,945		4,258,870					
DCB										0		0.0100		####		0		0.0100		0.00		23.25		23.45		26.14		26.34		1,974,160		1,941,827					
INDBL																																					
Page: 220		Date: 11/7/97		Time:																																	
								RTX-35								RTX-5						RTX-35															
								#2 Calc.								RT Window #1						RT Window #2															
		RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From		To		OK		From		To		OK		CF 1		CF 2	
alpha-BHC																8.51		8.61				10.89		10.99				2,566,371		4,506,541							
beta-BHC										0		0.0050		0.00		0		0.0050		0.00		9.36		9.46		12.57		12.67		1,544,671		2,763,934					
delta-BHC										0		0.0050		0.00		0		0.0050		0.00		10.31		10.41		13.82		13.92		2,268,723		3,738,838					
gamma-BHC (Lindane)																9.53		9.63				12.26		12.36				2,538,622		4,261,102							
Heptachlor																11.79		11.89				13.65		13.75				2,688,550		4,415,387							
Aldrin										0		0.0050		0.00		0		0.0050		0.00		12.91		13.01		14.65		14.75		2,315,651		3,937,878					
Heptachlor Epoxide										0		0.0050		0.00		0		0.0050		0.00		14.16		14.30		16.01		16.15		2,280,773		3,587,050					
Endosulfan I																15.06		15.20				16.93		17.07				1,885,502		3,095,271							
Dieldrin																15.68		15.82				17.70		17.84				1,851,506		3,161,246							
4,4'- DDE		15.66		17.53		35,363		64,024		1,768,150		0.0100		1.00		3,201,200		0.0100		1.00		15.59		15.73		17.45		17.59		1,767,135		3,201,176					
Endrin																16.21		16.35				18.58		18.72				1,586,354		1,827,424							
Endosulfan II		16.51		19.14		34,093		47,840		1,704,650		0.0100		1.00		2,392,000		0.0100		1.00		16.43		16.57		19.07		19.21		1,704,645		2,392,019					
4,4' - DDD																16.59		16.73				18.87		19.01				1,327,904		2,426,272							
Endosulfan Sulfate		17.53		20.37		27,009		42,306		1,350,450		0.0100		1.00		2,115,300		0.0100		1.00		17.46		17.60		20.29		20.43		1,350,444		2,115,321					
4,4'-DDT																17.48		17.62				19.69		19.83				1,498,086		2,370,811							
Methoxychlor																18.86		17.00				21.81		21.95				843,614		1,009,285							
Endrin Ketone										0		0.0100		0.00		0		0.0100		0.00		18.63		18.77		22.20		22.34		1,760,472		2,238,586					
Endrin Aldehyde										0		0.0100		0.00		0		0.0100		0.00		16.89		17.03		19.86		20.00		1,557,045		2,169,011					
alpha-Chlordane										0		0.0050		0.00		0		0.0050		0.00		15.12		15.26		16.88		17.02		2,248,284		3,542,655					
gamma-Chlordane										0		0.0050		0.00		0		0.0050		0.00		14.77		14.91		16.50		16.64		2,260,682		3,535,934					
TCMX										0		0.0050		0.00		0		0.0050		0.00		7.28		7.38		8.51		8.61		2,207,945		4,258,870					
DCB										#VALUE!		0.0100		####		#VALUE!		0.0100		####		23.25		23.45		26.14		26.34		1,974,160		1,941,827					

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Page: 287		Date:		Time:																																	
								RTX-35				RTX-5				RTX-35																					
								#2 Calc.				RT Window #1		RT Window #2																							
		RTX-5		RTX-35		RTX-5		RTX-35		#1 Calc.																											
		RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From		To		OK		From		To		OK		CF 1		CF 2	
alpha-BHC										0		0.0200		0.00		0		0.0200		0.00		8.49		8.59				10.87		10.97				3,092,151		4,018,063	
beta-BHC										0		0.0200		0.00		0		0.0200		0.00		8.34		9.44				12.55		12.65				1,563,334		2,410,568	
delta-BHC										0		0.0200		0.00		0		0.0200		0.00		10.29		10.39				13.80		13.90				2,701,926		3,434,175	
gamma-BHC (Lindane)										0		0.0200		0.00		0		0.0200		0.00		8.51		9.61				12.24		12.34				2,920,866		3,760,403	
Heptachlor										0		0.0200		0.00		0		0.0200		0.00		11.77		11.87				13.63		13.73				2,874,067		4,526,146	
Aldrin										0		0.0200		0.00		0		0.0200		0.00		12.89		12.99				14.64		14.74				2,669,509		4,447,354	
Heptachlor Epoxide										0		0.0200		0.00		0		0.0200		0.00		14.14		14.28				15.99		16.13				2,469,596		3,843,312	
Endosulfan I										0		0.0200		0.00		0		0.0200		0.00		15.05		15.19				16.92		17.06				2,073,767		3,056,727	
Dieldrin										0		0.0400		0.00		0		0.0400		0.00		15.67		15.91				17.69		17.83				2,131,157		3,479,351	
4,4'- DDE										0		0.0400		0.00		0		0.0400		0.00		15.57		15.71				17.44		17.58				2,049,883		3,485,745	
Endrin										0		0.0400		0.00		0		0.0400		0.00		16.19		16.33				18.57		18.71				1,826,434		2,224,775	
Endosulfan II										0		0.0400		0.00		0		0.0400		0.00		16.42		16.56				19.05		19.19				1,859,419		2,093,683	
4,4' - DDD										0		0.0400		0.00		0		0.0400		0.00		16.57		16.71				18.86		19.00				1,519,781		2,425,336	
Endosulfan Sulfate										0		0.0400		0.00		0		0.0400		0.00		17.44		17.58				20.28		20.42				1,390,499		2,631,460	
4,4'-DDT		17.53		19.75		116,762		214,193		1,459,525		0.0400		1.00		2,677,413		0.0400		1.00		17.46		17.60		19.68		19.82				1,459,521		2,677,413			
Methoxychlor		18.92		21.87		300,976		388,411		752,440		0.2000		1.00		971,028		0.2000		1.00		18.85		18.99		21.80		21.94				752,441		971,027			
Endrin Ketone																						18.62		18.86		22.18		22.32				1,907,253		1,877,818			
Endrin Aldehyde																						16.87		17.01		19.84		19.98				1,615,561		2,114,117			
alpha-Chlordane																						15.11		15.25		16.87		17.01				2,398,596		3,850,828			
gamma-Chlordane																						14.75		14.89		16.49		16.63				2,428,025		3,805,680			
TCX										0		0.0200		0.00		0		0.0200		0.00		7.27		7.37		8.49		8.59				2,271,222		4,476,668			
DCB										0		0.0400		0.00		0		0.0400		0.00		23.23		23.43		26.13		26.33				1,887,023		2,114,090			
INDBM																																					
Page: 290		Date:		Time:																																	
								RTX-35				RTX-5				RTX-35																					
		RTX-5		RTX-35		RTX-5		RTX-35		#1 Calc.				#2 Calc.				RT Window #1		RT Window #2																	
		RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From		To		OK		From		To		OK		CF 1		CF 2	
alpha-BHC																						8.49		8.59				10.87		10.97				3,092,151		4,018,063	
beta-BHC										0		0.0200		0.00		0		0.0200		0.00		9.34		9.44				12.55		12.65				1,563,334		2,410,568	
delta-BHC										0		0.0200		0.00		0		0.0200		0.00		10.29		10.39				13.80		13.90				2,701,926		3,434,175	
gamma-BHC (Lindane)																						9.51		9.61				12.24		12.34				2,920,866		3,760,403	
Heptachlor																						11.77		11.87				13.63		13.73				2,874,067		4,526,146	
Aldrin										0		0.0200		0.00		0		0.0200		0.00		12.89		12.99				14.64		14.74				2,669,509		4,447,354	
Heptachlor Epoxide										0		0.0200		0.00		0		0.0200		0.00		14.14		14.28				15.99		16.13				2,469,596		3,843,312	
Endosulfan I																						15.05		15.19				16.92		17.06				2,073,767		3,056,727	
Dieldrin																						15.67		15.91				17.69		17.83				2,131,157		3,479,351	
4,4'- DDE										0		0.0400		0.00		0		0.0400		0.00		15.57		15.71				17.44		17.58				2,049,883		3,485,745	
Endrin																						16.19		16.33				18.57		18.71				1,826,434		2,224,775	
Endosulfan II										0		0.0400		0.00		0		0.0400		0.00		16.42		16.56				19.05		19.19				1,859,419		2,093,683	
4,4' - DDD																						16.57		16.71				18.86		19.00				1,519,781		2,425,336	
Endosulfan Sulfate										0		0.0400		0.00		0		0.0400		0.00		17.44		17.58				20.28		20.42				1,390,499		2,631,460	
4,4'-DDT																						17.46		17.60		19.68		19.82				1,459,521		2,677,413			
Methoxychlor																						18.85		18.99		21.80		21.94				752,441		971,027			
Endrin Ketone		18.68		22.25		152,580		150,225		1,907,250		0.0400		1.00		1,877,813		0.0400		1.00		18.62		18.86		22.18		22.32				1,907,253		1,877,818			
Endrin Aldehyde		16.94		19.91		129,245		169,129		1,615,563		0.0400		1.00		2,114,113		0.0400		1.00		16.87		17.01		19.84		19.98				1,615,561		2,114,117			
alpha-Chlordane		15.18		16.94		95,944		154,033		2,398,600		0.0200		1.00		3,850,825		0.0200		1.00		15.11		15.25		16.87		17.01				2,398,596		3,850,828			
gamma-Chlordane										0		0.0200		0.00		0		0.0200		0.00		14.75		14.89		16.49		16.63				2,428,025		3,805,680			
TCMX										0		0.0200		0.00		0		0.0200		0.00		7.27		7.37		8.49		8.59				2,271,222		4,476,668			
DCB										0		0.0400		0.00		0		0.0400		0.00		23.23		23.43		26.13		26.33				1,887,023		2,114,090			

Initial Calibration																									
Sheet1																									
INDAMH																									
Page: 293		Date:		Time: 6:34																					
RTX-5		RTX-35		RTX-5		RTX-35		RTX-35		RTX-5		RTX-35		RTX-5		RTX-35									
RT1		RT2		Resp 1		Resp 2		#1 Calc.		#2 Calc.		RT Window #1		RT Window #2											
Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From		To		OK									
alpha-BHC		8.80						0		0.0800		0.00		8.49		8.59		10.87		10.97		3,042,142		3,192,440	
beta-BHC								0		0.0800		0.00		9.34		9.44		12.55		12.65		1,407,765		1,891,912	
delta-BHC								0		0.0800		0.00		10.29		10.39		13.80		13.90		2,681,685		2,779,513	
gamma-BHC (Lindane)								0		0.0800		0.00		9.51		9.61		12.24		12.34		2,799,592		2,976,311	
Heptachlor								0		0.0800		0.00		11.77		11.87		13.63		13.73		2,645,982		3,539,927	
Aldrin														12.89		12.99		14.64		14.74		2,603,233		3,621,851	
Heptachlor Epoxide														14.14		14.28		15.99		16.13		2,324,369		3,122,601	
Endosulfan I								0		0.0800		0.00		15.05		15.19		16.92		17.06		2,004,105		2,480,236	
Dieldrin		15.74		17.76		653,418		877,620		2,041,931		0.1600		1.00		2,742,563		0.1600		1.00		2,041,932		2,742,561	
4,4'- DDE														15.57		15.71		17.44		17.58		1,949,590		2,757,116	
Endrin								0		0.1600		0.00		16.19		16.33		18.57		18.71		1,767,068		1,747,872	
Endosulfan II														16.42		16.56		19.05		19.19		1,722,312		1,719,391	
4,4' - DDD								0		0.1600		0.00		16.57		16.71		18.86		19.00		1,496,118		1,895,321	
Endosulfan Sulfate														17.44		17.58		20.28		20.42		1,342,212		2,225,613	
4,4'-DDT								0		0.1600		0.00		17.46		17.60		19.68		19.82		1,394,387		2,156,056	
Methoxychlor		18.91		21.87		1,066,407		1,194,504		666,504		0.8000		1.00		746,565		0.8000		1.00		666,505		746,565	
Endrin Ketone														18.62		18.86		22.18		22.32		1,732,384		1,519,647	
Endrin Aldehyde														16.87		17.01		19.84		19.98		1,447,964		1,698,874	
alpha-Chlordane														15.11		15.25		16.87		17.01		2,206,744		3,147,730	
gamma-Chlordane														14.75		14.89		16.49		16.63		2,279,532		3,175,218	
TCX								0		0.0800		0.00		7.27		7.37		8.49		8.59		2,005,218		3,478,132	
DCB								0		0.1600		0.00		23.23		23.43		26.13		26.33		1,648,398		1,792,560	
INDBH																									
Page:		Date:		Time:																					
RTX-5		RTX-35		RTX-5		RTX-35		RTX-35		RTX-5		RTX-35		RTX-5		RTX-35									
RT1		RT2		Resp 1		Resp 2		#1 Calc.		#2 Calc.		RT Window #1		RT Window #2											
Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.		R/C		From		To		OK									
alpha-BHC								0		0.0800		0.00		8.49		8.59		10.87		10.97		3,042,142		3,192,440	
beta-BHC								0		0.0800		0.00		9.34		9.44		12.55		12.65		1,407,765		1,891,912	
delta-BHC								0		0.0800		0.00		10.29		10.39		13.80		13.90		2,681,685		2,779,513	
gamma-BHC (Lindane)								0		0.0800		0.00		9.51		9.61		12.24		12.34		2,799,592		2,976,311	
Heptachlor								0		0.0800		0.00		11.77		11.87		13.63		13.73		2,645,982		3,539,927	
Aldrin		12.94		14.69		416,517		579,496		2,603,231		0.0800		1.00		3,621,850		0.0800		1.00		2,603,233		3,621,851	
Heptachlor Epoxide								0		0.0800		0.00		14.14		14.28		15.99		16.13		2,324,369		3,122,601	
Endosulfan I														15.05		15.19		16.92		17.06		2,004,105		2,480,236	
Dieldrin														15.67		15.91		17.69		17.83		2,041,932		2,742,561	
4,4'- DDE		15.64		17.51		623,869		882,277		1,949,591		0.1600		1.00		2,757,116		0.1600		1.00		1,949,590		2,757,116	
Endrin														16.19		16.33		18.57		18.71		1,767,068		1,747,872	
Endosulfan II								0		0.1600		0.00		16.42		16.56		19.05		19.19		1,722,312		1,719,391	
4,4' - DDD														16.57		16.71		18.86		19.00		1,496,118		1,895,321	
Endosulfan Sulfate		17.51		20.35		429,508		712,196		1,342,213		0.1600		1.00		2,225,613		0.1600		1.00		1,342,212		2,225,613	
4,4'-DDT														17.46		17.60		19.68		19.82		1,394,387		2,156,056	
Methoxychlor														18.85		18.99		21.80		21.94		666,505		746,565	
Endrin Ketone								0		0.1600		0.00		18.62		18.86		22.18		22.32		1,732,384		1,519,647	
Endrin Aldehyde								0		0.1600		0.00		16.87		17.01		19.84		19.98		1,447,964		1,698,874	
alpha-Chlordane								0		0.0800		0.00		15.11		15.25		16.87		17.01		2,206,744		3,147,730	
gamma-Chlordane								0		0.0800		0.00		14.75		14.89		16.49		16.63		2,279,532		3,175,218	
TCMX								0		0.0800		0.00		7.27		7.37		8.49		8.59		2,005,218		3,478,132	
DCB								0		0.1600		0.00		23.23		23.43		26.13		26.33		1,648,398		1,792,560	

[illegible]

[illegible]

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Laboratory Reference Numbers:

Samples Received 10/24

MW-01D	9731351
MW-01I	9731352
MW-01S	9731353

Samples Received 10/28

MW-02D	9731510
MW-02I	9731511
MW-02S	9731512
MW-02SMS	9731512MS
MW-02SMSD	9731512MSD
MW-07D	9731513
MW-07S	9731514

Samples Received 10/29

MW-04D	9731715
MW-06D	9731716
MW-06I	9731717
MW-06S	9731718
MW-07I	9731719

Samples Received 10/30

MW-04I	9731853
MW-04S	9731854
MW-05D	9731855
MW-05I	9731856
MW-05S	9731857

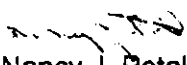
Water samples were received for wet chemistry analyses by NYS DEC ASP protocols.
A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
- * - Laboratory Control Sample
- * - Laboratory Blanks
- Field Blanks
- * - Preparation Blanks
- * - Matrix Spike
- * - Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
- Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

No problems were found which would affect the end use of the data.


Nancy J. Potak
December 28, 1997

Holding Times

All samples were analyzed within the required holding times.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

Matrix Spike Recovery

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte. All recoveries were within the acceptable quality assurance limits (75% - 125%).

Duplicate Analysis

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCL analyte list. All recoveries which could be calculated were within the acceptable limits (+/- 20%).

Laboratory Control Sample

No problems were detected with the recoveries of the water LCS standards where they were run as part of the wet chemistry method .

Method Detection Limit

No problems were found with the instrument detection limits.

Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

No problems, aside from those noted above, were found with any of the reported sample data.

Data Validation Summary Table
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPM)	Reported Conc. (PPM)	Validation Reported Conc. Decision		
Sample MW-01D (Lab. #: 9731351)					
BOD	2.00 U	20.00	20.00		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	198.00	159.70		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.36	0.36		
Nitrate (as N)	0.10 U	1.20	1.20		
Total Phenols (ug/l)	1.00 U	1.10	1.10		
Sulfate	5.00 U	5.20	5.17		
Total Alkalinity	1.00 U	11.40	11.40		
Total Dissolved Solids	10.00 U	452.00	452.00		
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U		
Total Organic Carbon	0.50 U	1.30	1.30		
Total Hardness	5.00 U	146.00	146.00		
Sample MW-01I (Lab. #: 9731352)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	195.00	189.20		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.90	0.90		
Nitrate (as N)	0.10 U	0.72	0.72		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	35.20	35.22		
Total Alkalinity	1.00 U	20.70	20.70		
Total Dissolved Solids	10.00 U	356.00	356.00		
Total Kjeldahl Nitrogen	0.20 U	1.40	1.40		
Total Organic Carbon	0.50 U	2.80	2.79		
Total Hardness	5.00 U	42.00	42.00		
Sample MW-01S (Lab. #: 9731353)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.70	0.70		
Chloride	2.00 U	69.70	69.70		
COD	15.00 U	46.00	46.00		
Color	5.00 U	80.00	80.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	1.00	1.00		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	36.30	36.27		
Total Alkalinity	1.00 U	264.00	263.50		
Total Dissolved Solids	10.00 U	432.00	432.00		
Total Kjeldahl Nitrogen	0.20 U	2.30	2.30		
Total Organic Carbon	0.50 U	11.70	11.68		
Total Hardness	5.00 U	310.00	310.00		

Data Validation Summary Table
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPM)	Reported Conc. (PPM)	Validation Reported Conc. Decision		
Sample MW-02D (Lab. #: 9731510)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	9.40	9.40		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.24	0.24		
Nitrate (as N)	0.10 U	1.40	1.35		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	12.60	12.61		
Total Alkalinity	1.00 U	10.20	10.20		
Total Dissolved Solids	10.00 U	76.00	76.00		
Total Kjeldahl Nitrogen	0.20 U	0.23	0.23		
Total Organic Carbon	0.50 U	0.70	0.72		
Total Hardness	5.00 U	30.00	30.00		
Sample MW-02I (Lab. #: 9731511)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	10.00	10.00		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.65	0.62		
Nitrate (as N)	0.10 U	1.90	1.91		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	32.90	32.93		
Total Alkalinity	1.00 U	12.30	12.30		
Total Dissolved Solids	10.00 U	103.00	103.00		
Total Kjeldahl Nitrogen	0.20 U	0.80	0.80		
Total Organic Carbon	0.50 U	1.50	1.49		
Total Hardness	5.00 U	26.00	26.00		
Sample MW-02S (Lab. # 9731512)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	21.20	21.20		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.08	0.08		
Nitrate (as N)	0.10 U	0.82	0.82		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	20.90	20.90		
Total Alkalinity	1.00 U	86.60	86.60		
Total Dissolved Solids	10.00 U	171.00	171.00		
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U		
Total Organic Carbon	0.50 U	2.20	2.20		
Total Hardness	5.00 U	92.00	92.00		

Data Validation Summary Table
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPM)	Reported Conc. (PPM)	Validation Reported Conc. Decision		
Sample MW-04D (Lab. #: 9731715)					
BOD	2.00 U	8.00	8.00		
Bromide	0.50 U	1.10	1.10		
Chloride	2.00 U	50.10	50.10		
COD	15.00 U	46.00	46.00		
Color	5.00 U	150.00	150.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	2.80	2.80		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	4.90	4.90		
Sulfate	5.00 U	18.30	18.32		
Total Alkalinity	1.00 U	210.00	210.40		
Total Dissolved Solids	10.00 U	318.00	318.00		
Total Kjeldahl Nitrogen	0.20 U	5.60	5.60		
Total Organic Carbon	0.50 U	4.70	4.73		
Total Hardness	5.00 U	280.00	280.00		
Sample MW-04I (Lab. #: 9731853)					
BOD	2.00 U	6.00	6.00		
Bromide	0.50 U	0.80	0.80		
Chloride	2.00 U	28.70	28.70		
COD	15.00 U	37.00	37.00		
Color	5.00 U	30.00	30.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	1.80	1.80		
Nitrate (as N)	0.10 U	0.12	0.12		
Total Phenols (ug/l)	1.00 U	3.90	3.90		
Sulfate	5.00 U	14.50	14.47		
Total Alkalinity	1.00 U	309.00	308.80		
Total Dissolved Solids	10.00 U	424.00	424.00		
Total Kjeldahl Nitrogen	0.20 U	4.30	4.30		
Total Organic Carbon	0.50 U	5.20	5.24		
Total Hardness	5.00 U	210.00	210.00		
Sample MW-04S (Lab. #: 9731854)					
BOD	2.00 U	5.00	5.00		
Bromide	0.50 U	1.00	1.00		
Chloride	2.00 U	63.30	63.30		
COD	15.00 U	67.00	67.00		
Color	5.00 U	150.00	150.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	9.30	9.30		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	4.90	4.90		
Sulfate	5.00 U	5.00 U	5.00 U		
Total Alkalinity	1.00 U	618.00	618.20		
Total Dissolved Solids	10.00 U	624.00	624.00		
Total Kjeldahl Nitrogen	0.20 U	23.30	23.30		
Total Organic Carbon	0.50 U	17.30	17.33		
Total Hardness	5.00 U	540.00	540.00		

Data Validation Summary Table
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-06D (Lab. #: 9731856)					
BOD	2.00 U	2.00	2.00		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	51.50	51.50		
COD	15.00 U	43.00	43.00		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	4.30	4.30		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	1.50	1.50		
Sulfate	5.00 U	27.50	27.53		
Total Alkalinity	1.00 U	234.00	233.60		
Total Dissolved Solids	10.00 U	337.00	337.00		
Total Kjeldahl Nitrogen	0.20 U	6.00	6.00		
Total Organic Carbon	0.50 U	6.00	6.03		
Total Hardness	5.00 U	260.00	260.00		
Sample MW-06I (Lab. #: 9731856)					
BOD	2.00 U	3.00	3.00		
Bromide	0.50 U	0.60	0.60		
Chloride	2.00 U	24.30	24.30		
COD	15.00 U	16.00	16.00		
Color	5.00 U	40.00	40.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.49	0.49		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	8.90	8.89		
Total Alkalinity	1.00 U	30.40	30.40		
Total Dissolved Solids	10.00 U	100.00	100.00		
Total Kjeldahl Nitrogen	0.20 U	0.70	0.70		
Total Organic Carbon	0.50 U	1.80	1.78		
Total Hardness	5.00 U	50.00	50.00		
Sample MW-06S (Lab. #: 9731857)					
BOD	2.00 U	8.00	8.00		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	82.10	82.10		
COD	15.00 U	46.00	46.00		
Color	5.00 U	60.00	60.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	4.40	4.40		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	4.90	4.90		
Sulfate	5.00 U	5.00 U	5.00 U		
Total Alkalinity	1.00 U	412.00	411.60		
Total Dissolved Solids	10.00 U	482.00	482.00		
Total Kjeldahl Nitrogen	0.20 U	9.60	9.60		
Total Organic Carbon	0.50 U	9.60	9.60		
Total Hardness	5.00 U	400.00	400.00		

Data Validation Summary Table
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method Blank Conc. (PPM)	Lab. Reported Conc. (PPM)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW-06D (Lab. #: 9731716)					
BOD	2.00 U	3.00	3.00		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	7.30	7.30		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	10.00	10.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.32	0.32		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	20.30	20.33		
Total Alkalinity	1.00 U	31.30	29.20		
Total Dissolved Solids	10.00 U	78.00	78.00		
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U		
Total Organic Carbon	0.50 U	2.00	1.98		
Total Hardness	5.00 U	120.00	120.00		
Sample MW-06I (Lab. #: 9731717)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	25.40	25.40		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	10.00	10.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.76	0.76		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	1.80	1.80		
Sulfate	5.00 U	21.20	21.15		
Total Alkalinity	1.00 U	115.00	111.20		
Total Dissolved Solids	10.00 U	190.00	190.00		
Total Kjeldahl Nitrogen	0.20 U	1.40	1.40		
Total Organic Carbon	0.50 U	2.40	2.39		
Total Hardness	5.00 U	180.00	180.00		
Sample MW-06S (Lab. #: 9731718)					
BOD	2.00 U	5.00	5.00		
Bromide	0.50 U	0.60	0.60		
Chloride	2.00 U	39.80	39.80		
COD	15.00 U	46.00	46.00		
Color	5.00 U	150.00	150.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	7.20	7.20		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	5.40	5.40		
Sulfate	5.00 U	5.00 U	5.00 U		
Total Alkalinity	1.00 U	453.00	447.50		
Total Dissolved Solids	10.00 U	480.00	480.00		
Total Kjeldahl Nitrogen	0.20 U	17.30	17.30		
Total Organic Carbon	0.50 U	11.40	11.39		
Total Hardness	5.00 U	440.00	440.00		

Data Validation Summary Table
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 24th, through 30th, 1997

Sample Delivery Group: IRS007

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPM)	Reported Conc. (PPM)	Reported Conc. Decision		
Sample MW-07D (Lab. #: 9731513)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.90	0.90		
Chloride	2.00 U	11.60	11.60		
COD	15.00 U	25.00	25.00		
Color	5.00 U	20.00	20.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.37	0.37		
Nitrate (as N)	0.10 U	1.30	1.28		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	5.20	5.20		
Total Alkalinity	1.00 U	22.70	22.70		
Total Dissolved Solids	10.00 U	101.00	101.00		
Total Kjeldahl Nitrogen	0.20 U	0.36	0.36		
Total Organic Carbon	0.50 U	0.80	0.84		
Total Hardness	5.00 U	9.00	9.00		
Sample MW-07I (Lab. #: 9731719)					
BOD	2.00 U	6.00	6.00		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	9.20	9.20		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	1.30	1.30		
Nitrate (as N)	0.10 U	0.88	0.88		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	19.90	19.90		
Total Alkalinity	1.00 U	23.40	23.40		
Total Dissolved Solids	10.00 U	65.00	65.00		
Total Kjeldahl Nitrogen	0.20 U	1.70	1.70		
Total Organic Carbon	0.50 U	1.90	1.93		
Total Hardness	5.00 U	180.00	180.00		
Sample MW-07S (Lab. #: 9731514)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	10.60	10.60		
COD	15.00 U	28.00	28.00		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.26	0.26		
Nitrate (as N)	0.10 U	2.40	2.36		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	11.60	11.62		
Total Alkalinity	1.00 U	88.00	88.00		
Total Dissolved Solids	10.00 U	181.00	181.00		
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U		
Total Organic Carbon	0.50 U	1.00	1.00		
Total Hardness	5.00 U	98.00	98.00		

SUMMARY OF THE ANALYTICAL DATA VALIDATION For the Sonia Road Landfill

New York State Department of Environmental Conservation Data Validation Summary Form

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # in CLP	Non Compliance
IRS008	10/31/97	95	Trip Blank #5	W	Yes	NA	NA	NA	NA		
IRS008	10/31/97	95	MW-03D	W	Yes	Yes	Yes	Yes	Yes		
IRS008	10/31/97	95	MW-03I	W	Yes	Yes	Yes	Yes	Yes		
IRS008	10/31/97	95	MW-03S	W	Yes	Yes	Yes	Yes	Yes		
IRS008	10/31/97	95	MW-010D	W	Yes	Yes	Yes	Yes	Yes		
IRS008	10/31/97	95	MW-010I	W	Yes	Yes	Yes	Yes	Yes		
IRS008	10/31/97	95	MW-010S	W	Yes	Yes	Yes	Yes	Yes		
IRS008	10/31/97	95	Trip Blank #6	W	Yes	NA	NA	NA	NA		
IRS008	10/31/97	95	MW-011D	W	Yes	No	Yes	Yes	Yes	I-31	Holding Time
IRS008	10/31/97	95	MW-011I	W	Yes	No	Yes	Yes	Yes	I-31	Holding Time
IRS008	10/31/97	95	MW-011S	W	Yes	No	Yes	Yes	Yes	I-31	Holding Time
IRS008	10/31/97	95	MW-012D	W	Yes	No	Yes	Yes	Yes	I-31	Holding Time
IRS008	10/31/97	95	MW-012I	W	Yes	No	Yes	Yes	Yes	I-31	Holding Time
IRS008	10/31/97	95	MW-012S	W	Yes	No	Yes	Yes	Yes	I-31	Holding Time
IRS008	11/04/97	95	Trip Blank #7	W	Yes	NA	NA	NA	NA		
IRS008	11/04/97	95	MW-013D	W	Yes	Yes	Yes	Yes	Yes		
IRS008	11/04/97	95	MW-013I	W	Yes	Yes	Yes	Yes	Yes		
IRS008	11/04/97	95	MW-013S	W	Yes	Yes	Yes	Yes	Yes		
IRS008	11/04/97	95	MW-014D	W	Yes	Yes	Yes	Yes	Yes		
IRS008	11/04/97	95	MW-014I	W	Yes	Yes	Yes	Yes	Yes		
IRS008	11/04/97	95	MW-014S	W	Yes	Yes	Yes	Yes	Yes		

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

TCL Volatile Organic Analyses - Method 95-1

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Laboratory Reference Numbers:

Samples Received 10/31

Trip Blank #5	9732016
MW-03D	9732010
MW-03I	9732011
MW-03S	9732012
MW-10D	9732013
MW10I	9732014
MW-10S	9732015

Trip Blank #6	9732135
MW-11D	9732129
MW-11I	9732130
MW-11S	9732131
MW-12D	9732132
MW-12I	9732133
MW-12S	9732134

Samples Received 11/04

Trip Blank #7	9732347
MW-13D	9732324
MW-13I	9732325
MW-13IMS	9732325MS
MW-13IMSD	9732325MSD
MW-13S	9732326
MW-14D	9732327
MW-14I	9732328
MW-14S	9731329

Water samples were received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - GC/MS Tuning
- * - Holding Times
- * - Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
- * - System Monitoring Compound Recoveries
- * - Internal Standard Recoveries
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
- * - instrument Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

No problems were found with the analyses of this sample delivery group which would affect the end use of the data.

Nancy J. Potak
December 26, 1997

Holding Time

The samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the reported tunes.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were found with the calibrations associated with the analyses of the samples.

Matrix Spike / Matrix Spike Duplicate

Sample MW-13I (Lab. #: 9732325) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

Method Blank

A low concentration of a non-target compound (9J), which was a suspected laboratory artifact due to column bleed, was detected in the 11/4 method blank. This was not detected in any of the associated samples.

No other volatile compounds were detected in the remaining method blanks associated with the analyses of these samples.

The data for the method blanks are reported next to the data for the samples in the data validation summary table.

Trip Blank

No compounds were detected in any of the three trip blanks which were received with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times of any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

No problems were found with the reported instrument detection limits.

Sample Results

No problems were found with the reported results of 1the samples of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analytes - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
Trip Blank Received 10/24 (Lab. #: 9731368)				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW03D (Lab. #: 9732010) Received 10/31					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	9 J	9 J		
1,1-Dichloroethane	10 U	10 J	10 J		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	61	61		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	1 J	1 J		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analytes - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	
	Blank		Validation	
	Conc.	Reported	Reported	Footnotes
	(PPB)	(PPB)	Conc.	Decision
Sample MW031 (Lab. #: 9732011) Received 10/31				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	5 J	5 J	
1,1-Dichloroethane	10 U	46	46	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	12	12	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	3 J	3 J	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	
Non-Target Volatile Organics				
Unknown (5.52)	ND	7 J	7 J	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW03S (Lab. : 9732012) received 10/31					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	4 J	4 J		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyzes - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW10D (Lab. #: 9732013) Received 10/31					
TCL Volatile Organics (Undiluted)					
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	8 J	8 J		
1,2-Dichloroethane (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	3 J	3 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW101 (Lab. #: 9732014)					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	11	11		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Santa Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc. Decision	Footnotes
Sample MW10S (Lab. #: 9732016)				
TCL Volatile Organics				
(Undiluted)				
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	2 J	2 J	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	24	24	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Data Validation Summary Table
For the Soria Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc. Decision	Qualifiers Footnotes
Trip Blank #8 (Lab. #: 9732136) Received 10/31				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethane (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethane	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethane	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

**Data Validation Summary Table
For the Sonia Road Landfill**

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW11D (Lab. #: 9732129)					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	2 J	2 J		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 96-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc.	Footnotes
Sample MW111 (Lab. #: 9732130) Received 10/31				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	7 J	7 J	
1,2-Dichloroethane (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	2 J	2 J	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethane	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethane	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Decision	Qualifiers
Sample MW11S (Lab. #: 9732131) Received 10/31				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U
Carbon Disulfide	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	3 J	3 J	3 J
1,2-Dichloroethene (total)	10 U	24	24	24
Chloroform	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Trichloroethene	10 U	12	12	12
Dibromochloromethane	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U
Xylenes (total)	10 U	10 U	10 U	10 U

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Soria Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision	Footnotes
Sample MW12D (Lab. #: 9732132) Received 10/31				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethane	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW121 (Lab. #: 9732133) Received 10/31					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	1 J	1 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	
	Blank		Validation	
	Conc.	Reported	Reported	Footnotes
	(PPB)	(PPB)	Conc.	
Sample MW12S (Lab. #: 9732134) Received 10/31				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethane (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc.	Footnotes
Trip Blank #7 (Lab. #: 9732348) Received 11/04				
TCL Volatile Organics	(Undiluted)			
Chloromethane	10 U	10 U	10 U	
Bromomethane	10 U	10 U	10 U	
Vinyl Chloride	10 U	10 U	10 U	
Chloroethane	10 U	10 U	10 U	
Methylene Chloride	10 U	10 U	10 U	
Acetone	10 U	10 U	10 U	
Carbon Disulfide	10 U	10 U	10 U	
1,1-Dichloroethene	10 U	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	10 U	
1,2-Dichloroethene (total)	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	10 U	
2-Butanone	10 U	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	10 U	
Bromodichloromethane	10 U	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	10 U	
cis-1,3-Dichloropropene	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	
Dibromochloromethane	10 U	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	10 U	
Benzene	10 U	10 U	10 U	
trans-1,3-Dichloropropene	10 U	10 U	10 U	
Bromoform	10 U	10 U	10 U	
4-Methyl-2-Pentanone	10 U	10 U	10 U	
2-Hexanone	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	
Toluene	10 U	10 U	10 U	
Chlorobenzene	10 U	10 U	10 U	
Ethylbenzene	10 U	10 U	10 U	
Styrene	10 U	10 U	10 U	
Xylene (total)	10 U	10 U	10 U	

Non-Target Volatile Organics
None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 96-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc. Decision	Footnotes
Sample MW13D (Lab. #: 9732324) Received 11/4				
TCL Volatile Organics				
Chloromethane	(Undiluted)	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	2 J	2 J	2 J
Chloroethane	10 U	3 J	3 J	3 J
Methylene Chloride	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U
Carbon Disulfide	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	4 J	4 J	4 J
1,2-Dichloroethene (total)	10 U	32	32	32
Chloroform	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Trichloroethene	10 U	1 J	1 J	1 J
Dibromochloromethane	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	1 J	1 J	1 J
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	2 J	2 J	2 J
Ethylbenzene	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U
Xylene (total)	10 U	10 U	10 U	10 U
Non-Target Volatile Organics				
Unknown (15.12)	ND	9 J	9 J	9 J

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision	Qualifiers Footnotes
Sample MW131 (Lab. #: 9732326) Received 11/04				
TCL Volatile Organics (Undiluted)				
Chloromethane	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	7 J	7 J	7 J
Chloroethane	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U
Carbon Disulfide	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U
1,2-Dichloroethane (total)	10 U	4 J	4 J	4 J
Chloroform	10 U	73	73	73
1,2-Dichloroethane	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Trichloroethene	10 U	4 J	4 J	4 J
Dibromochloromethane	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	9 J	9 J	9 J
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U
Xylene (total)	10 U	10 U	10 U	10 U
Non-Target Volatile Organics				
None Detected				

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 96-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW13S (Lab. #: 9732326)					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 98-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW14D (Lab. #: 9732327) Received 11/04					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	14	14		
Chloroethane	10 U	5 J	5 J		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	2 J	1 J		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	1 J	1 J		
1,2-Dichloroethene (total)	10 U	21	21		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	1 J	1 J		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
None Detected					

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW141 (Lab. #: 9732328) Received 11/04					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	8 J	8 J		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics

None Detected

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Volatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW14S (Lab. #: 9732329) Received 11/04					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics
None Detected

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

TCL Volatile Organics - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008
Laboratory Reference Numbers:

Samples Received 10/31

Trip Blank #5	9732016
MW-03D	9732010
MW-03I	9732011
MW-03S	9732012
MW-10D	9732013
MW10I	9732014
MW-10S	9732015

Trip Blank #6	9732135
MW-11D	9732129
MW-11I	9732130
MW-11S	9732131
MW-12D	9732132
MW-12I	9732133
MW-12S	9732134

Samples Received 11/04

Trip Blank #7	9732347
MW-13D	9732324
MW-13I	9732325
MW-13IMS	9732325MS
MW-13IMSD	9732325MSD
MW-13S	9732326
MW-14D	9732327
MW-14I	9732328
MW-14S	9731329

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: H5971 Level: low - water
Tune File ID: A14357.D Acceptable: yes Time Requirements Met: yes
Initial Calibration File ID: A14358.D Date: 08/05/97 Page: 177
Associated Samples: VBLK10/31, MW03D, VBLK11/3, MW03S, MW-03I, MW10D, WM10I, MW10S, TB5,
VBLK11/4, MW11D, MW11I, MW11S, MW12D, MW12I, MW12S, TB6, VBLK11/7, MSB11/7, MW13I,
MW13IMS, MW13IMSD, MW13S, MW14D, MW14I, MW14S, TB7

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300
Surrogates:					
Toluene-d8	<30.0	>0.01			
Bromofluorobenzene *	<20.5	>0.20			
1,2-Dichloroethane-d4	<30.0	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes

All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Toluene
PPB		
10	12167/34004 * 5.000 = 1.789	46708/148840 * 5.000 = 1.569
20	25462/37124 * 2.500 = 1.715	96660/165114 * 2.500 = 1.464
50	58983/38941 * 1.000 = 1.515	225538/172398 * 1.000 = 1.308
100	119817/39680 * 0.500 = 1.510	459511/173779 * 0.500 = 1.322
200	236697/40766 * 0.250 = 1.452	897721/180168 * 0.250 = 1.246

AV. RRF = 1.596

%RSD = 9.2%

AV. RRF = 1.382

%RSD = 9.5%

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971	Level: low - water	
Tune File ID: A15413	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: A15414	Date: 10/31/97	Page: 197
Initial Calibration File ID: A14358.D	Date: 08/05/97	Page: 177
Associated Samples: VBLK10/31, MW03D		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes
 All Compounds Average RRF > 0.01: yes
 All Compounds %D < QC Limit: yes

Footnote:
 Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Chlorobenzene
PPB		
50	61317/43808 * 1.000 = 1.400	178372/188939 * 1.000 = 0.944
%D:	(1.596 - 1.400) / 1.596 * 100 = 12.280702	%D: (1.155 - 0.944) / 1.155 * 100 = 18.268398

METHOD BLANK: VBLK10/31 (Page 223)

Compound	ppb	<CRDL
No compounds were detected in this method blank		

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971	Level: low - water	
Tune File ID: A15435.D	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: A15436.D	Date: 11/03/97	Page: 202
Initial Calibration File ID: A14358.D	Date: 08/05/97	Page: 177
Associated Samples: VBLK11/3, MW03S, MW03L, MW10D, WM10L, MW10S, TB5		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	Chloroform	1,1,2-Trichloroethane
PPB		
50	148998/42899 * 1.000 = 3.473	85668/224718 * 1.000 = 0.381

%D: (3.629 - 3.473) / 3.629 * 100 = 4.298705

%D: = (0.470 - 0.381) / 0.470 * 100 = 18.93617

METHOD BLANK: VBLK11/03 (Page 229)

Compound

ppb

<CRDL

No compounds were detected in this method blank

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971	Level: low - water	
Tune File ID: A15463.D	Acceptable: yes	Time Requirements Met: yes
Calibration File ID: A5464.D	Date: 11/04/97	Page: 207
Initial Calibration File ID: A14358.D	Date: 08/05/97	Page: 177
Associated Samples: VBLK11/4, MW11D, MW11I, MW11S, MW12D, MW12I, MW12S, TB6		

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300

Surrogates:

Toluene-d8	<100	>0.01
Bromofluorobenzene *	<25.0	>0.20
1,2-Dichloroethane-d4	<100	>0.01

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.01: yes

All Compounds %D < QC Limit: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:

1,2-Dichloroethane

Toluene

PPB

50

88674/43752 * 1.000 = 2.027

232075/188708 * 1.000 = 1.23

%D: (2.412 - 2.027) / 2.412 * 100 = 15.961857

%D: (1.382 - 1.230) / 1.382 * 100 = 10.998553

METHOD BLANK: VBLK11/04 (Page 235)

Compound

ppb

<CRDL

No compounds were detected in this method blank

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: H5971 Level: low - water
 Tune File ID: A15551.D Acceptable: yes Time Requirements Met: yes
 Calibration File ID: A15552.D Date: 11/07/97 Page: 212
 Initial Calibration File ID: A14358.D Date: 08/05/97 Page: 177
 Associated Samples: VBLK11/7, MSB11/7, MW13I, MW13IMS, MW13IMSD, MW13S, MW14D, MW14I, MW14S, TB7

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300
Surrogates:					
Toluene-d8	<100	>0.01			
Bromofluorobenzene *	<25.0	>0.20			
1,2-Dichloroethane-d4	<100	>0.01			

All Compounds Average RRF > QC Limit: yes
 All Compounds Average RRF > 0.01: yes
 All Compounds %D < QC Limit: yes

Footnote:
 Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax * Cis/Cs)

COMPOUND:	Vinyl Chloride	Ethylbenzene
PPB		
50	64225/43783 * 1.000 = 1.467	90918/189146 * 1.000 = 0.481

%D: (1.585 - 1.467) / 1.585 * 100 = 7.444795 %D: (0.528 - 0.481) / 0.528 * 100 = 8.901515

METHOD BLANK: VBLK11/07 (Page 241)

Compound	ppb	<CRDL
Unknown (sus. Column bleed) (15.96)	6J	NA

OVERALL ASSESS: AND COMMENTS: ok

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Water Semivolatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008
Laboratory Reference Numbers:

Samples Received 10/31

MW-03D	9732010
MW-03I	9732011
MW-03S	9732012
MW-10D	9732013
MW10I	9732014
MW-10S	9732015
MW-11D	9732129
MW-11I	9732130
MW-11S	9732131
MW-12D	9732132
MW-12I	9732133
MW-12S	9732134

Samples Received 11/04

MW-13D	9732324
MW-13I	9732325
MW-13IMS	9732325MS
MW-13IMSD	9732325MSD
MW-13S	9732326
MW-14D	9732327
MW-14I	9732328
MW-14S	9731329

Water samples were received for analyses of the semivolatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

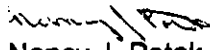
- * - Data Completeness
- * - GC/MS Tuning
 - Holding Times
 - Calibrations
 - Laboratory Blanks
 - Field Blanks
- * - Surrogate Compound Recoveries
- * - Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
 - Blank Spike
- * - Compound Identification
- * - Compound Quantitation
- * - Instrument Detection Limit

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Samples MW-11D, MW-11I, MW-11S, MW-12D, MW-12I and MW-12S were extracted 1 day beyond the five day holding time to extraction required by the NYS DEC ASP program.

No other problems were found with the analyses of this sample delivery group which would affect the end use of the data.



Nancy J. Potak
December 20, 1997

Holding Time

Samples MW-11D, MW-11I, MW-11S, MW-12D, MW-12I and MW-12S were extracted 1 day beyond the five day holding time to extraction required by the NYS DEC ASP program. The data for these samples were flagged with the "J" qualifier and footnoted with #81 in the data validation summary table. It is possible that low concentrations of semivolatile organics may have been overlooked in these samples.

All of the other samples were extracted and analyzed within the required holding times.

Tunes

No problems were found with any of the reported tunes.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the NYS DEC's ASP quality assurance limits with the one exception of the terphenyl-d14 surrogate (30%) in samples MW-03D (32%), MW-03I (28%), and MW-10S (30%). These were below the 33% quality assurance limit.

The NYS DEC ASP program allows for one surrogate to be outside of the quality assurance limits (as long as the recovery is greater than 10%). All of the NYS DEC ASP requirements were met in the analysis of this sample.

Calibrations

The percent RSD of fluorene (22%) was just over the 20% quality assurance limit in the one initial calibration associated with the analyses of all of the samples of this delivery group. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table. This compound was not detected in any of the samples of this delivery group.

No other problems were found with the initial calibration associated with the analysis of the samples.

Matrix Spike / Matrix Spike Duplicate

Sample MW-13I (Lab. #: 9732325) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	MSD %Rec	QC Limits	RPD	Limits
Phenol			12 - 110		42
2-Chlorophenol			27 - 123		40
1,4-Dichlorobenzene			37 - 97	30%	28
N-Nitroso-di-n-prop.			41 - 116		38
1,2,4-Trichlorobenzene			39 - 98		28
4-Chloro-3-methylphenol			23 - 97		42
Acenaphthene			46 - 118		31
4-Nitrophenol	120%	116%	10 - 80		50
2,4-Dinitrotoluene			24 - 96		38
Pentachlorophenol	111%		9 - 103		50
Pyrene			26 - 127		31

The high recoveries of 4-nitrophenol and pentachlorophenol do not significantly affect the end use of the data. Neither of these were detected in any of the samples of this delivery group.

Blank Spike

All blank spike recoveries were within the required quality assurance limits with the one exception of the recovery of 4-nitrophenol (97%). This was above the 80% quality assurance limit. The high recovery of this compound does not significantly affect the end use of the data. 4-nitrophenol was not detected in any of the samples of this delivery group.

Method Blank

Low concentrations of bis(2-ethylhexyl)phthalate, an aldol condensation product and another non-target compound were detected in one or more of the three method blanks. These were negated or qualified according to the standard EPA data validation procedures whenever they were found in an associated sample.

The data for the method blanks are reported next to the data for the samples in the data validation summary table.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

No problems were found with the reported instrument detection limits.

Sample Results

Samples MW-11D, MW-11I, MW-11S, MW-12D, MW-12I and MW-12S were extracted 1 day beyond the five day holding time to extraction required by the NYS DEC ASP program. The data for these samples were flagged with the "J" qualifier

and footnoted with #81 in the data validation summary table. It is possible that low concentrations of semivolatile organics may have been overlooked in these samples.

No other problems were found with the reported results of the samples of this delivery group.

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW03D (Lab. #: 9732010) Received 10/31					
TCL Semivolatile Organics	(Untilted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	J	qualify
4-Nitroaniline	25 U	25 U	25 U		15
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	1 J	1 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.72)	?	35 JNA	35 JNA		1
Unknown Acid (24.13)	ND	6 J	7 J		
Unknown Alcohol (24.66)	ND	4 J	4 J		
Unknown Alcohol (27.26)	ND	3 J	3 J		
Unknown Acid (28.03)	ND	11 J	11 J		

Data Validation Summary Table
For the Sonla Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS003

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW031 (Lab. #: 9732011) Received 10/31					
TCL Semivolatile Organics	(Untilted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	J	quality
4-Nitroaniline	25 U	25 U	25 U		15
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.72)	?	23 JNA	23 JNA		1
Unknown Acid (24.14)	ND	6 J	6 J		
Unknown Alcohol (24.62)	ND	4 J	4 J		
Unknown Alcohol (27.28)	ND	4 J	4 J		
Unknown Acid (28.03)	ND	10 J	10 J		
Unknown (29.60)	ND	4 J	4 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA		Qualifiers	Footnotes
			Validation Reported Conc.	Decision		
Sample MM03S (Lab. : 9732012) received 10/31						
TCL Semivolatile Organics						
Phenol	(Units/L)	10 U	10 U	10 U		
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U		
2-Chlorophenol	10 U	10 U	10 U	10 U		
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U		
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U		
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U		
2-Methylphenol	10 U	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	10 U		
4-Methylphenol	10 U	10 U	10 U	10 U		
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U		
Hexachloroethane	10 U	10 U	10 U	10 U		
Nitrobenzene	10 U	10 U	10 U	10 U		
Isophorone	10 U	10 U	10 U	10 U		
2-Nitrophenol	10 U	10 U	10 U	10 U		
2,4-Dimethylphenol	10 U	10 U	10 U	10 U		
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U		
2,4-Dichlorophenol	10 U	10 U	10 U	10 U		
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U		
Naphthalene	10 U	10 U	10 U	10 U		
4-Chloroaniline	10 U	10 U	10 U	10 U		
Hexachlorobutadiene	10 U	10 U	10 U	10 U		
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U		
2-Methylnaphthalene	10 U	10 U	10 U	10 U		
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U		
2,4,6-Trichlorophenol	25 U	25 U	25 U	25 U		
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U		
2-Chloronaphthalene	25 U	25 U	25 U	25 U		
2-Nitroaniline	10 U	10 U	10 U	10 U		
Dimethylphthalate	10 U	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U	10 U		
2,6-Dinitrotoluene	25 U	25 U	25 U	25 U		
3-Nitroaniline	10 U	10 U	10 U	10 U		
Acenaphthene	10 U	10 U	10 U	10 U		
2,4-Dinitrophenol	25 U	25 U	25 U	25 U		
4-Nitrophenol	10 U	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	10 U		
4-Nitroaniline	25 U	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U		
Hexachlorobenzene	10 U	10 U	10 U	10 U		
Pentachlorophenol	25 U	25 U	25 U	25 U		
Phenanthrene	10 U	10 U	10 U	10 U		
Anthracene	10 U	10 U	10 U	10 U		
Carbazole	10 U	10 U	10 U	10 U		
Di-n-Butylphthalate	10 U	10 U	10 U	10 U		
Fluoranthene	10 U	10 U	10 U	10 U		
Pyrene	10 U	10 U	10 U	10 U		
Butylbenzylphthalate	10 U	10 U	10 U	10 U		
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U		
Benzo(a)anthracene	10 U	10 U	10 U	10 U		
Chrysene	10 U	10 U	10 U	10 U		
Bis(2-Ethylhexyl)phthalate	10 U	10 U	10 U	10 U		
Di-n-octylphthalate	10 U	10 U	10 U	10 U		
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U		
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U		
Benzo(a)pyrene	10 U	10 U	10 U	10 U		
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U		
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U		
Non-Target Semivolatile Organics						
2-Pentanolone, 4-hydroxy-4-methyl (6.71)	?	20 JUN	20 JUN			
Dodecanoic Acid (18.87)	ND	5 JUN	5 JUN			
Unknown Aromatic (23.44)	ND	6 J	6 J			
Unknown Aromatic (27.37)	ND	3 J	3 J			
Unknown (35.58)	ND	3 J	3 J			
Unknown (35.58)	ND	6 J	6 J			

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semi-volatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW10D (Lab. #: 9732013) Received 10/31					
TCL Semivolatile Organics					
Phenol	(Undiluted)	10 U	10 U		
bis(2-Chloroethyl)Ether	10 U	10 U	10 U		
2-Chlorophenol	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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U		
4-Nitroaniline	10 U	10 U	10 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	25 U	25 U	25 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	1 J	1 J		
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		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.72)	ND	24 JNA	24 JNA	quality	67
Unknown Aromatic (23.44)	ND	2 J	2 J		
Unknown Aromatic (27.37)	ND	3 J	3 J		
Unknown (35.55)	ND	2 J	2 J		
Unknown (35.87)	ND	5 J	5 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW101 (Lab. #: 9732014)					
TCL Semivolatile Organics	(Unlituted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	J qualify	15
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	2 J	2 J		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.71)	ND	12 JNA	12 JNA	qualify	67
Unknown (16.94)	ND	4 J	4 J		
Unknown Aromatic (27.36)	ND	4 J	4 J		
Unknown Alkane (35.54)	ND	3 J	3 J		
Unknown (35.88)	ND	6 J	6 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IR5008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW108 (Lab. #: 9732015)					
TCL Semivolatile Organics	(Untituted)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	J qualify	15
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.72)	ND	28 JNA	28 JNA	quality	67
Unknown Aromatic (23.44)	ND	4 J	4 J		
Unknown Aromatic (25.49)	ND	2 J	2 J		
Unknown Aromatic (27.37)	ND	11 J	11 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA		Qualifiers	Footnotes
			Validation Reported Conc.	Decision		
Sample MW11D (Lab. #: 9732129)						
TCL Semivolatile Organics						
Phenol	(Unlited)	10 U	10 U	10 U	J	quality 81
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	J	quality 81
2-Chlorophenol	10 U	10 U	10 U	10 U	J	quality 81
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	J	quality 81
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	J	quality 81
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	J	quality 81
2-Methylphenol	10 U	10 U	10 U	10 U	J	quality 81
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	10 U	J	quality 81
4-Methylphenol	10 U	10 U	10 U	10 U	J	quality 81
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	J	quality 81
Hexachloroethane	10 U	10 U	10 U	10 U	J	quality 81
Nitrobenzene	10 U	10 U	10 U	10 U	J	quality 81
Isophorone	10 U	10 U	10 U	10 U	J	quality 81
2-Nitrophenol	10 U	10 U	10 U	10 U	J	quality 81
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	J	quality 81
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	J	quality 81
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	J	quality 81
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	J	quality 81
Naphthalene	10 U	10 U	10 U	10 U	J	quality 81
4-Chloroaniline	10 U	10 U	10 U	10 U	J	quality 81
Hexachlorobutadiene	10 U	10 U	10 U	10 U	J	quality 81
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	J	quality 81
2-Methylnaphthalene	10 U	10 U	10 U	10 U	J	quality 81
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	J	quality 81
2,4,6-Trichlorophenol	25 U	25 U	25 U	25 U	J	quality 81
2,4,5-Trichlorophenol	25 U	10 U	25 U	10 U	J	quality 81
2-Chloronaphthalene	25 U	25 U	25 U	25 U	J	quality 81
2-Nitroaniline	10 U	10 U	10 U	10 U	J	quality 81
Dimethylphthalate	10 U	10 U	10 U	10 U	J	quality 81
Acenaphthylene	10 U	10 U	10 U	10 U	J	quality 81
2,6-Dinitrotoluene	25 U	25 U	25 U	25 U	J	quality 81
3-Nitroaniline	25 U	10 U	25 U	10 U	J	quality 81
Acenaphthene	10 U	25 U	25 U	25 U	J	quality 81
2,4-Dinitrophenol	25 U	10 U	25 U	10 U	J	quality 81
4-Nitrophenol	10 U	10 U	10 U	10 U	J	quality 81
Dibenzofuran	10 U	10 U	10 U	10 U	J	quality 81
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	J	quality 81
Diethylphthalate	10 U	10 U	10 U	10 U	J	quality 81
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	J	quality 81
Fluorene	10 U	10 U	10 U	10 U	J	quality 15, 81
4-Nitroaniline	25 U	25 U	25 U	25 U	J	quality 81
4,6-Dinitro-2-methylphenol	25 U	10 U	25 U	10 U	J	quality 81
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U	J	quality 81
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	J	quality 81
Hexachlorobenzene	10 U	10 U	10 U	10 U	J	quality 81
Pentachlorophenol	25 U	25 U	25 U	25 U	J	quality 81
Phenanthrene	10 U	10 U	10 U	10 U	J	quality 81
Anthracene	10 U	10 U	10 U	10 U	J	quality 81
Carbazole	10 U	10 U	10 U	10 U	J	quality 81
Di-n-Butylphthalate	10 U	10 U	10 U	10 U	J	quality 81
Fluoranthene	10 U	10 U	10 U	10 U	J	quality 81
Pyrene	10 U	10 U	10 U	10 U	J	quality 81
Butylbenzylphthalate	10 U	10 U	10 U	10 U	J	quality 81
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U	J	quality 81
Benzofluoranthene	10 U	10 U	10 U	10 U	J	quality 81
Benzofluoranthene	10 U	10 U	10 U	10 U	J	quality 81
Benzo(a)pyrene	10 U	10 U	10 U	10 U	J	quality 81
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	J	quality 81
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	J	quality 81
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	J	quality 81
Non-Target Semivolatile Organics						
2-Pentanone, 4-hydroxy-4-methyl (6.67)	93	JNA	34 JNAB	35 JNAB	negate	1, 81
Caprolactam (14.72)	ND		4 JN	4 JN	quality	81
Dimethoxyphenol isomer (16.10)	ND		3 J	3 J	quality	81
Unknown Aromatic (20.23)	ND		2 J	2 J	quality	81
Unknown Aromatic (21.17)	ND		4 J	4 J	quality	81
Unknown Aromatic (26.20)	ND		8 J	8 J	quality	81

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW111 (Lab. #: 9732130) Received 10/31					
TCL Semivolatile Organics	(Untiltuted)				
Phenol	10 U	10 U	10 U	J	quality 81
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	J	quality 81
2-Chlorophenol	10 U	10 U	10 U	J	quality 81
1,3-Dichlorobenzene	10 U	10 U	10 U	J	quality 81
1,4-Dichlorobenzene	10 U	10 U	10 U	J	quality 81
1,2-Dichlorobenzene	10 U	10 U	10 U	J	quality 81
2-Methylphenol	10 U	10 U	10 U	J	quality 81
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	J	quality 81
4-Methylphenol	10 U	10 U	10 U	J	quality 81
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	J	quality 81
Hexachloroethane	10 U	10 U	10 U	J	quality 81
Nitrobenzene	10 U	10 U	10 U	J	quality 81
Isophorone	10 U	10 U	10 U	J	quality 81
2-Nitrophenol	10 U	10 U	10 U	J	quality 81
2,4-Dimethylphenol	10 U	10 U	10 U	J	quality 81
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	J	quality 81
2,4-Dichlorophenol	10 U	10 U	10 U	J	quality 81
1,2,4-Trichlorobenzene	10 U	10 U	10 U	J	quality 81
Naphthalene	10 U	10 U	10 U	J	quality 81
4-Chloroaniline	10 U	10 U	10 U	J	quality 81
Hexachlorobutadiene	10 U	10 U	10 U	J	quality 81
4-Chloro-3-methylphenol	10 U	10 U	10 U	J	quality 81
2-Methylnaphthalene	10 U	10 U	10 U	J	quality 81
Hexachlorocyclopentadiene	10 U	10 U	10 U	J	quality 81
2,4,6-Trichlorophenol	10 U	10 U	10 U	J	quality 81
2,4,5-Trichlorophenol	25 U	25 U	25 U	J	quality 81
2-Chloronaphthalene	10 U	10 U	10 U	J	quality 81
2-Nitroaniline	25 U	25 U	25 U	J	quality 81
Dimethylphthalate	10 U	10 U	10 U	J	quality 81
Acenaphthylene	10 U	10 U	10 U	J	quality 81
2,6-Dinitrotoluene	10 U	10 U	10 U	J	quality 81
3-Nitroaniline	25 U	25 U	25 U	J	quality 81
Acenaphthene	10 U	10 U	10 U	J	quality 81
2,4-Dinitrophenol	25 U	25 U	25 U	J	quality 81
4-Nitrophenol	10 U	10 U	10 U	J	quality 81
Dibenzofuran	10 U	10 U	10 U	J	quality 81
2,4-Dinitrotoluene	10 U	10 U	10 U	J	quality 81
Diethylphthalate	10 U	10 U	10 U	J	quality 81
4-Chlorophenyl-phenylether	10 U	10 U	10 U	J	quality 81
Fluorene	10 U	10 U	10 U	J	quality 15, 81
4-Nitroaniline	25 U	25 U	25 U	J	quality 81
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	J	quality 81
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	J	quality 81
4-Bromophenyl-phenylether	10 U	10 U	10 U	J	quality 81
Hexachlorobenzene	10 U	10 U	10 U	J	quality 81
Pentachlorophenol	25 U	25 U	25 U	J	quality 81
Phenanthrene	10 U	10 U	10 U	J	quality 81
Anthracene	10 U	10 U	10 U	J	quality 81
Carbazole	10 U	10 U	10 U	J	quality 81
Di-n-Butylphthalate	10 U	10 U	10 U	J	quality 81
Fluoranthene	10 U	10 U	10 U	J	quality 81
Pyrene	10 U	10 U	10 U	J	quality 81
Butylbenzylphthalate	10 U	10 U	10 U	J	quality 81
3,3'-Dichlorobenzidine	10 U	10 U	10 U	J	quality 81
Benzo(a)anthracene	10 U	10 U	10 U	J	quality 81
Chrysene	10 U	10 U	10 U	J	quality 81
Bis(2-Ethylhexyl)phthalate	10 U	2 J	3 J	J	quality 81
Di-n-octylphthalate	10 U	10 U	10 U	J	quality 81
Benzo(b)fluoranthene	10 U	10 U	10 U	J	quality 81
Benzo(k)fluoranthene	10 U	10 U	10 U	J	quality 81
Benzo(a)pyrene	10 U	10 U	10 U	J	quality 81
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	J	quality 81
Dibenz(a,h)anthracene	10 U	10 U	10 U	J	quality 81
Benzo(g,h,i)perylene	10 U	10 U	10 U	J	quality 81
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.67)	93	JNA	55 JNAB	55 JNAB	negate 1, 81
Unknown Acid (24.09)	ND		9 J	9 J	quality 81
Unknown Alcohol (27.22)	ND		5 J	5 J	quality 81
Unknown Acid (27.98)	ND		17 J	17 J	quality 81
Unknown (30.63)	ND		4 J	5 J	quality 81

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method		Lab. Reported Conc. (PPB)	QA Validation		Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)		Reported Conc. (PPB)	Decision		
Sample MW115 (Lab. #: 9732131) Received 10/31							
TCL Semivolatile Organics							
Phenol	(Unitless)						
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	J	quality	81
2-Chlorophenol	10 U	10 U	10 U	10 U	J	quality	81
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	J	quality	81
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	J	quality	81
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	J	quality	81
2-Methylphenol	10 U	10 U	10 U	10 U	J	quality	81
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	10 U	J	quality	81
4-Methylphenol	10 U	10 U	10 U	10 U	J	quality	81
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	J	quality	81
Hexachloroethane	10 U	10 U	10 U	10 U	J	quality	81
Nitrobenzene	10 U	10 U	10 U	10 U	J	quality	81
Isophorone	10 U	10 U	10 U	10 U	J	quality	81
2-Nitrophenol	10 U	10 U	10 U	10 U	J	quality	81
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	J	quality	81
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	J	quality	81
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	J	quality	81
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	J	quality	81
Naphthalene	10 U	10 U	10 U	10 U	J	quality	81
4-Chloroaniline	10 U	10 U	10 U	10 U	J	quality	81
Hexachlorobutadiene	10 U	10 U	10 U	10 U	J	quality	81
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	J	quality	81
2-Methylnaphthalene	10 U	10 U	10 U	10 U	J	quality	81
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	J	quality	81
2,4,6-Trichlorophenol	25 U	25 U	25 U	25 U	J	quality	81
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U	J	quality	81
2-Chloronaphthalene	25 U	25 U	25 U	25 U	J	quality	81
2-Nitroaniline	10 U	10 U	10 U	10 U	J	quality	81
Dimethylphthalate	10 U	10 U	10 U	10 U	J	quality	81
Acenaphthylene	10 U	10 U	10 U	10 U	J	quality	81
2,6-Dinitrotoluene	25 U	25 U	25 U	25 U	J	quality	81
3-Nitroaniline	10 U	10 U	10 U	10 U	J	quality	81
Acenaphthene	25 U	25 U	25 U	25 U	J	quality	81
2,4-Dinitrophenol	10 U	10 U	10 U	10 U	J	quality	81
4-Nitrophenol	10 U	10 U	10 U	10 U	J	quality	81
Dibenzofuran	10 U	10 U	10 U	10 U	J	quality	81
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	J	quality	81
Diethylphthalate	10 U	10 U	10 U	10 U	J	quality	81
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	J	quality	81
Fluorene	10 U	10 U	10 U	10 U	J	quality	15, 81
4-Nitroaniline	25 U	25 U	25 U	25 U	J	quality	81
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U	J	quality	81
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	10 U	J	quality	81
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	J	quality	81
Hexachlorobenzene	10 U	10 U	10 U	10 U	J	quality	81
Pentachlorophenol	25 U	25 U	25 U	25 U	J	quality	81
Phenanthrene	10 U	10 U	10 U	10 U	J	quality	81
Anthracene	10 U	10 U	10 U	10 U	J	quality	81
Carbazole	10 U	10 U	10 U	10 U	J	quality	81
Di-n-Butylphthalate	10 U	10 U	10 U	10 U	J	quality	81
Fluoranthene	10 U	10 U	10 U	10 U	J	quality	81
Pyrene	10 U	10 U	10 U	10 U	J	quality	81
Butylbenzylphthalate	10 U	10 U	10 U	10 U	J	quality	81
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U	J	quality	81
Benzo(a)anthracene	10 U	10 U	10 U	10 U	J	quality	81
Chrysene	10 U	10 U	10 U	10 U	J	quality	81
Bis(2-Ethylhexyl)phthalate	10 U	10 U	10 U	10 U	J	quality	81
Di-n-octylphthalate	10 U	10 U	10 U	10 U	J	quality	81
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	J	quality	81
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	J	quality	81
Benzo(a)pyrene	10 U	10 U	10 U	10 U	J	quality	81
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	J	quality	81
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	J	quality	81
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	J	quality	81
Non-Target Semivolatile Organics							
2-Pentanolone, 4-hydroxy-4-methyl (6.68)	93	JNA	50 JNAB	50 JNAB		negative	1, 81
Unknown (14.79)	ND		4 J	4 J		quality	81
Unknown Aromatic (23.40)	ND		3 J	3 J		quality	81
Unknown Aromatic (27.33)	ND		4 J	4 J		quality	81
Unknown Aromatic (35.33)	ND		4 J	4 J		quality	81
Unknown (35.64)	ND		6 J	6 J		quality	81

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semi-volatile Organic Analyses - Method 82-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method		Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)				
Sample MM4120 (Lab. #: 9732132) Received 10/31						
TCL Semi-volatile Organics (Unlabeled)						
Phenol	10 U	10 U	10 U	J	quality	81
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	J	quality	81
2-Chlorophenol	10 U	10 U	10 U	J	quality	81
1,3-Dichlorobenzene	10 U	10 U	10 U	J	quality	81
1,4-Dichlorobenzene	10 U	10 U	10 U	J	quality	81
1,2-Dichlorobenzene	10 U	10 U	10 U	J	quality	81
2-Methylphenol	10 U	10 U	10 U	J	quality	81
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	J	quality	81
4-Methylphenol	10 U	10 U	10 U	J	quality	81
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	J	quality	81
Hexachloroethane	10 U	10 U	10 U	J	quality	81
Nitrobenzene	10 U	10 U	10 U	J	quality	81
Isophorone	10 U	10 U	10 U	J	quality	81
2-Nitrophenol	10 U	10 U	10 U	J	quality	81
2,4-Dimethylphenol	10 U	10 U	10 U	J	quality	81
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	J	quality	81
2,4-Dichlorophenol	10 U	10 U	10 U	J	quality	81
1,2,4-Trichlorobenzene	10 U	10 U	10 U	J	quality	81
Naphthalene	10 U	10 U	10 U	J	quality	81
4-Chloroaniline	10 U	10 U	10 U	J	quality	81
Hexachlorobutadiene	10 U	10 U	10 U	J	quality	81
4-Chloro-3-methylphenol	10 U	10 U	10 U	J	quality	81
2-Methylnaphthalene	10 U	10 U	10 U	J	quality	81
Hexachlorocyclopentadiene	10 U	10 U	10 U	J	quality	81
2,4,6-Trichlorophenol	25 U	25 U	25 U	J	quality	81
2,4,5-Trichlorophenol	10 U	10 U	10 U	J	quality	81
2-Chloronaphthalene	25 U	25 U	25 U	J	quality	81
2-Nitroaniline	10 U	10 U	10 U	J	quality	81
Dimethylphthalate	10 U	10 U	10 U	J	quality	81
Acenaphthylene	10 U	10 U	10 U	J	quality	81
2,6-Dinitrotoluene	25 U	25 U	25 U	J	quality	81
3-Nitroaniline	10 U	10 U	10 U	J	quality	81
Acenaphthene	10 U	10 U	10 U	J	quality	81
2,4-Dinitrophenol	25 U	25 U	25 U	J	quality	81
4-Nitrophenol	10 U	10 U	10 U	J	quality	81
Dibenzofuran	10 U	10 U	10 U	J	quality	81
2,4-Dinitrotoluene	10 U	10 U	10 U	J	quality	81
Diethylphthalate	10 U	10 U	10 U	J	quality	81
4-Chlorophenyl-phenylether	10 U	10 U	10 U	J	quality	15, 81
Fluorene	10 U	10 U	10 U	J	quality	81
4-Nitroaniline	25 U	25 U	25 U	J	quality	81
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	J	quality	81
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	J	quality	81
4-Bromophenyl-phenylether	10 U	10 U	10 U	J	quality	81
Hexachlorobenzene	10 U	10 U	10 U	J	quality	81
Pentachlorophenol	25 U	25 U	25 U	J	quality	81
Phenanthrene	10 U	10 U	10 U	J	quality	81
Anthracene	10 U	10 U	10 U	J	quality	81
Carbazole	10 U	10 U	10 U	J	quality	81
Di-n-Butylphthalate	10 U	10 U	10 U	J	quality	81
Fluoranthene	10 U	10 U	10 U	J	quality	81
Pyrene	10 U	10 U	10 U	J	quality	81
Butylbenzylphthalate	10 U	10 U	10 U	J	quality	81
3,3'-Dichlorobenzidine	10 U	10 U	10 U	J	quality	81
Benzo(a)anthracene	10 U	10 U	10 U	J	quality	81
Chrysene	10 U	10 U	10 U	J	quality	81
Bis(2-Ethylhexyl)phthalate	10 U	3 J	3 J	J	quality	81
Di-n-octylphthalate	10 U	10 U	10 U	J	quality	81
Benzo(b)fluoranthene	10 U	10 U	10 U	J	quality	81
Benzo(k)fluoranthene	10 U	10 U	10 U	J	quality	81
Benzo(a)pyrene	10 U	10 U	10 U	J	quality	81
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	J	quality	81
Dibenz(e,h)anthracene	10 U	10 U	10 U	J	quality	81
Benzo(g,h,i)perylene	10 U	10 U	10 U	J	quality	81
Non-Target Semi-volatile Organics						
2-Pentanone, 4-hydroxy-4-methyl (6.67)	93	JNA	46 JNAB	46 JNAB	negate	1, 81
Unknown Acid (24.09)	ND		11 J	11 J	quality	81
Unknown Acid (26.10)	ND		5 J	5 J	quality	81
Unknown Acid (27.98)	ND		23 J	23 J	quality	81
Unknown Alcohol (29.54)	ND		6	6 J	quality	81

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW121 (Lab. #: 9732133) Received 10/31					
TCL Semivolatile Organics (Unlituted)					
Phenol	10 U	10 U	10 U	J	qualify 81
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	J	qualify 81
2-Chlorophenol	10 U	10 U	10 U	J	qualify 81
1,3-Dichlorobenzene	10 U	10 U	10 U	J	qualify 81
1,4-Dichlorobenzene	10 U	10 U	10 U	J	qualify 81
1,2-Dichlorobenzene	10 U	10 U	10 U	J	qualify 81
2-Methylphenol	10 U	10 U	10 U	J	qualify 81
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	J	qualify 81
4-Methylphenol	10 U	10 U	10 U	J	qualify 81
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	J	qualify 81
Hexachloroethane	10 U	10 U	10 U	J	qualify 81
Nitrobenzene	10 U	10 U	10 U	J	qualify 81
Isophorone	10 U	10 U	10 U	J	qualify 81
2-Nitrophenol	10 U	10 U	10 U	J	qualify 81
2,4-Dimethylphenol	10 U	10 U	10 U	J	qualify 81
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	J	qualify 81
2,4-Dichlorophenol	10 U	10 U	10 U	J	qualify 81
1,2,4-Trichlorobenzene	10 U	10 U	10 U	J	qualify 81
Naphthalene	10 U	10 U	10 U	J	qualify 81
4-Chloroaniline	10 U	10 U	10 U	J	qualify 81
Hexachlorobutadiene	10 U	10 U	10 U	J	qualify 81
4-Chloro-3-methylphenol	10 U	10 U	10 U	J	qualify 81
2-Methylnaphthalene	10 U	10 U	10 U	J	qualify 81
Hexachlorocyclopentadiene	10 U	10 U	10 U	J	qualify 81
2,4,6-Trichlorophenol	10 U	10 U	10 U	J	qualify 81
2,4,5-Trichlorophenol	25 U	25 U	25 U	J	qualify 81
2-Chloronaphthalene	10 U	10 U	10 U	J	qualify 81
2-Nitroaniline	25 U	25 U	25 U	J	qualify 81
Dimethylphthalate	10 U	10 U	10 U	J	qualify 81
Acenaphthylene	10 U	10 U	10 U	J	qualify 81
2,6-Dinitrotoluene	10 U	10 U	10 U	J	qualify 81
3-Nitroaniline	25 U	25 U	25 U	J	qualify 81
Acenaphthene	10 U	10 U	10 U	J	qualify 81
2,4-Dinitrophenol	25 U	25 U	25 U	J	qualify 81
4-Nitrophenol	10 U	10 U	10 U	J	qualify 81
Dibenzofuran	10 U	10 U	10 U	J	qualify 81
2,4-Dinitrotoluene	10 U	10 U	10 U	J	qualify 81
Diethylphthalate	10 U	10 U	10 U	J	qualify 81
4-Chlorophenyl-phenylether	10 U	10 U	10 U	J	qualify 81
Fluorene	10 U	10 U	10 U	J	qualify 15, 81
4-Nitroaniline	25 U	25 U	25 U	J	qualify 81
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	J	qualify 81
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	J	qualify 81
4-Bromophenyl-phenylether	10 U	10 U	10 U	J	qualify 81
Hexachlorobenzene	10 U	10 U	10 U	J	qualify 81
Pentachlorophenol	25 U	25 U	25 U	J	qualify 81
Phenanthrene	10 U	10 U	10 U	J	qualify 81
Anthracene	10 U	10 U	10 U	J	qualify 81
Carbazole	10 U	10 U	10 U	J	qualify 81
Di-n-Butylphthalate	10 U	10 U	10 U	J	qualify 81
Fluoranthene	10 U	10 U	10 U	J	qualify 81
Pyrene	10 U	10 U	10 U	J	qualify 81
Butylbenzylphthalate	10 U	10 U	10 U	J	qualify 81
3,3'-Dichlorobenzidine	10 U	10 U	10 U	J	qualify 81
Benzo(a)anthracene	10 U	10 U	10 U	J	qualify 81
Chrysene	10 U	10 U	10 U	J	qualify 81
Bis(2-Ethylhexyl)phthalate	10 U	3 J	3 J	J	qualify 81
Di-n-octylphthalate	10 U	10 U	10 U	J	qualify 81
Benzo(b)fluoranthene	10 U	10 U	10 U	J	qualify 81
Benzo(k)fluoranthene	10 U	10 U	10 U	J	qualify 81
Benzo(a)pyrene	10 U	10 U	10 U	J	qualify 81
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	J	qualify 81
Dibenz(a,h)anthracene	10 U	10 U	10 U	J	qualify 81
Benzo(g,h,i)perylene	10 U	10 U	10 U	J	qualify 81
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.68)	93 JNA	50 JNAB	50 JNAB	negate	1, 81
Unknown Acid (24.08)	ND	5 J	5 J	qualify	81
Unknown Acid (27.97)	ND	11 J	11 J	qualify	81
Unknown (35.32)	ND	7 J	7 J	qualify	81
Unknown Alkane (35.64)	ND	14 J	14 J	qualify	81

Data Validation Summary Table
For the Sonja Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW128 (Lab. #: 9732134) Received 10/31					
TCL Semivolatile Organics	(Untilted)				
Phenol	10 U	10 U	10 U	J	qualify 81
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	J	qualify 81
2-Chlorophenol	10 U	10 U	10 U	J	qualify 81
1,3-Dichlorobenzene	10 U	10 U	10 U	J	qualify 81
1,4-Dichlorobenzene	10 U	10 U	10 U	J	qualify 81
1,2-Dichlorobenzene	10 U	10 U	10 U	J	qualify 81
2-Methylphenol	10 U	10 U	10 U	J	qualify 81
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	J	qualify 81
4-Methylphenol	10 U	10 U	10 U	J	qualify 81
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	J	qualify 81
Hexachloroethane	10 U	10 U	10 U	J	qualify 81
Nitrobenzene	10 U	10 U	10 U	J	qualify 81
Isophorone	10 U	10 U	10 U	J	qualify 81
2-Nitrophenol	10 U	10 U	10 U	J	qualify 81
2,4-Dimethylphenol	10 U	10 U	10 U	J	qualify 81
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	J	qualify 81
2,4-Dichlorophenol	10 U	10 U	10 U	J	qualify 81
1,2,4-Trichlorobenzene	10 U	10 U	10 U	J	qualify 81
Naphthalene	10 U	10 U	10 U	J	qualify 81
4-Chloroaniline	10 U	10 U	10 U	J	qualify 81
Hexachlorobutadiene	10 U	10 U	10 U	J	qualify 81
4-Chloro-3-methylphenol	10 U	10 U	10 U	J	qualify 81
2-Methylnaphthalene	10 U	10 U	10 U	J	qualify 81
Hexachlorocyclopentadiene	10 U	10 U	10 U	J	qualify 81
2,4,6-Trichlorophenol	10 U	10 U	10 U	J	qualify 81
2,4,5-Trichlorophenol	25 U	25 U	25 U	J	qualify 81
2-Chloronaphthalene	10 U	10 U	10 U	J	qualify 81
2-Nitroaniline	25 U	25 U	25 U	J	qualify 81
Dimethylphthalate	10 U	10 U	10 U	J	qualify 81
Acenaphthylene	10 U	10 U	10 U	J	qualify 81
2,6-Dinitrotoluene	10 U	10 U	10 U	J	qualify 81
3-Nitroaniline	25 U	25 U	25 U	J	qualify 81
Acenaphthene	10 U	10 U	10 U	J	qualify 81
2,4-Dinitrophenol	25 U	25 U	25 U	J	qualify 81
4-Nitrophenol	10 U	10 U	10 U	J	qualify 81
Dibenzofuran	10 U	10 U	10 U	J	qualify 81
2,4-Dinitrotoluene	10 U	10 U	10 U	J	qualify 81
Diethylphthalate	10 U	10 U	10 U	J	qualify 81
4-Chlorophenyl-phenylether	10 U	10 U	10 U	J	qualify 81
Fluorene	10 U	10 U	10 U	J	qualify 15, 81
4-Nitroaniline	25 U	25 U	25 U	J	qualify 81
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	J	qualify 81
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U	J	qualify 81
4-Bromophenyl-phenylether	10 U	10 U	10 U	J	qualify 81
Hexachlorobenzene	10 U	10 U	10 U	J	qualify 81
Pentachlorophenol	25 U	25 U	25 U	J	qualify 81
Phenanthrene	10 U	10 U	10 U	J	qualify 81
Anthracene	10 U	10 U	10 U	J	qualify 81
Carbazole	10 U	10 U	10 U	J	qualify 81
Di-n-Butylphthalate	10 U	10 U	10 U	J	qualify 81
Fluoranthene	10 U	10 U	10 U	J	qualify 81
Pyrene	10 U	10 U	10 U	J	qualify 81
Butylbenzylphthalate	10 U	10 U	10 U	J	qualify 81
3,3'-Dichlorobenzidine	10 U	10 U	10 U	J	qualify 81
Benzo(a)anthracene	10 U	10 U	10 U	J	qualify 81
Chrysene	10 U	10 U	10 U	J	qualify 81
Bis(2-Ethylhexyl)phthalate	10 U	10 U	10 U	J	qualify 81
Di-n-octylphthalate	10 U	10 U	10 U	J	qualify 81
Benzo(b)fluoranthene	10 U	10 U	10 U	J	qualify 81
Benzo(k)fluoranthene	10 U	10 U	10 U	J	qualify 81
Benzo(a)pyrene	10 U	10 U	10 U	J	qualify 81
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	J	qualify 81
Dibenz(a,h)anthracene	10 U	10 U	10 U	J	qualify 81
Benzo(g,h,i)perylene	10 U	10 U	10 U	J	qualify 81
Non-Target Semivolatile Organics					
2-Pentanone, 4-hydroxy-4-methyl (6.66)	93 JNA	44 JNAB	44 JNAB	negate	1, 81
Unknown Aromatic (23.39)	ND	4 J	4 J	qualify	81
Unknown Aromatic (27.31)	ND	6 J	6 J	qualify	81
Unknown Acid (27.96)	ND	8 J	8 J	qualify	81
Unknown (35.27)	ND	5 J	5 J	qualify	81
Unknown (35.60)	ND	10 J	10 J	qualify	81

Data Validation Summary Table
For the Sonla Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IR5008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW13D (Lab. #: 9732324) Received 11/4					
TCL Semivolatile Organics (Unlituted)					
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	J qualify	15
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	1 J	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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
Unknown (8.44)	ND	7 J	7 J		
Triethyl Phosphate (12.45)	ND	5 JN	5 JN		
Phosphoric acid tributyl ester (19.94)	ND	4 JN	4 JN		
Benzenesulfonamide, N,N,4-trime (20.25)	ND	5 JN	5 JN		
2(3H)-Benzothiazolone (20.50)	ND	21 JN	21 JN		
Benzenesulfonamide, N-ethyl-4- (20.95)	ND	4 JN	4 JN		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW131 (Lab. #: 9732325) Received 11/04					
TCL Semivolatile Organics (Unlabeled)					
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
2-Methylnaphthalene	10 U	10 U	10 U		
Hexachlorocyclopentadiene	10 U	10 U	10 U		
2,4,6-Trichlorophenol	25 U	25 U	25 U		
2,4,5-Trichlorophenol	10 U	10 U	10 U		
2-Chloronaphthalene	25 U	25 U	25 U		
2-Nitroaniline	10 U	10 U	10 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	25 U	25 U	25 U		
3-Nitroaniline	10 U	10 U	10 U		
Acenaphthene	25 U	25 U	25 U		
2,4-Dinitrophenol	10 U	10 U	10 U		
4-Nitrophenol	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	1 J	6 JB	6 JB	negate	1
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2(3H)-Benzothiazobenzene (20.43)	ND	7 JN	7 JN		

Data Validation Summary Table
For the Sonita Road Landfill

Water TCL Semivolatile Organic Analyses - Method 85-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method		Lab.		QA		Qualifiers	Footnotes
	Blank	Conc.	Reported	Conc.	Validation	Reported		
	(PPB)	(PPB)	(PPB)	(PPB)	Decision	Conc.		
TCL Semivolatile Organics								
Phenol				(Unlited)				
bis(2-Chloroethyl)Ether	10 U		10 U	10 U	10 U			
2-Chlorophenol	10 U		10 U	10 U	10 U			
1,3-Dichlorobenzene	10 U		10 U	10 U	10 U			
1,4-Dichlorobenzene	10 U		10 U	10 U	10 U			
1,2-Dichlorobenzene	10 U		10 U	10 U	10 U			
2-Methylphenol	10 U		10 U	10 U	10 U			
bis(2-Chloroisopropyl)ether	10 U		10 U	10 U	10 U			
4-Methylphenol	10 U		10 U	10 U	10 U			
N-Nitroso-di-n-propylamine	10 U		10 U	10 U	10 U			
Hexachloroethane	10 U		10 U	10 U	10 U			
Nitrobenzene	10 U		10 U	10 U	10 U			
Isophotone	10 U		10 U	10 U	10 U			
2-Nitrophenol	10 U		10 U	10 U	10 U			
2,4-Dimethylphenol	10 U		10 U	10 U	10 U			
bis(2-Chloroethoxy)methane	10 U		10 U	10 U	10 U			
2,4-Dichlorophenol	10 U		10 U	10 U	10 U			
1,2,4-Trichlorobenzene	10 U		10 U	10 U	10 U			
Naphthalene	10 U		10 U	10 U	10 U			
4-Chloroaniline	10 U		10 U	10 U	10 U			
Hexachloroduladene	10 U		10 U	10 U	10 U			
4-Chloro-3-methylphenol	10 U		10 U	10 U	10 U			
2-Methylnaphthalene	10 U		10 U	10 U	10 U			
Hexachlorocyclopentadiene	10 U		10 U	10 U	10 U			
2,4,6-Trichlorophenol	25 U		25 U	25 U	25 U			
2,4,5-Trichlorophenol	10 U		10 U	10 U	10 U			
2-Chloronaphthalene	25 U		25 U	25 U	25 U			
2-Nitroaniline	10 U		10 U	10 U	10 U			
Dimethylphthalate	10 U		10 U	10 U	10 U			
Acenaphthylene	10 U		10 U	10 U	10 U			
2,6-Dinitrotoluene	10 U		10 U	10 U	10 U			
3-Nitroaniline	25 U		25 U	25 U	25 U			
Acenaphthene	10 U		10 U	10 U	10 U			
2,4-Dinitrophenol	25 U		25 U	25 U	25 U			
4-Nitrophenol	10 U		10 U	10 U	10 U			
Dibenzofuran	10 U		10 U	10 U	10 U			
2,4-Dinitrotoluene	10 U		10 U	10 U	10 U			
Diethylphthalate	10 U		10 U	10 U	10 U			
4-Chlorophenyl-phenylether	10 U		10 U	10 U	10 U			
Fluorene	10 U		10 U	10 U	10 U			
4-Nitroaniline	25 U		25 U	25 U	25 U			
4,6-Dinitro-2-methylphenol	25 U		25 U	25 U	25 U			
N-Nitrosodiphenylamine (1)	10 U		10 U	10 U	10 U			
4-Bromophenyl-phenylether	10 U		10 U	10 U	10 U			
Hexachlorobenzene	10 U		10 U	10 U	10 U			
Pentachlorophenol	25 U		25 U	25 U	25 U			
Phenanthrene	10 U		10 U	10 U	10 U			
Anthracene	10 U		10 U	10 U	10 U			
Carbazole	10 U		10 U	10 U	10 U			
Di-n-Butylphthalate	10 U		10 U	10 U	10 U			
Fluoranthene	10 U		10 U	10 U	10 U			
Pyrene	10 U		10 U	10 U	10 U			
Butylbenzylphthalate	10 U		10 U	10 U	10 U			
3,3'-Dichlorobenzidine	10 U		10 U	10 U	10 U			
Benzol(a)anthracene	10 U		10 U	10 U	10 U			
Chrysene	10 U		10 U	10 U	10 U			
Bis(2-Ethylhexyl)phthalate	1 U		10 U	10 U	10 U			
Di-n-octylphthalate	10 U		10 U	10 U	10 U			
Benzol(b)fluoranthene	10 U		10 U	10 U	10 U			
Benzol(k)fluoranthene	10 U		10 U	10 U	10 U			
Benzol(a)pyrene	10 U		10 U	10 U	10 U			
Indeno(1,2,3-cd)pyrene	10 U		10 U	10 U	10 U			
Dibenz(a,h)anthracene	10 U		10 U	10 U	10 U			
Benzol(g,h,i)perylene	10 U		10 U	10 U	10 U			
Non-Target Semivolatile Organics								
Unknown Acid (17.89)	ND		2 U		2 U			

quality 15

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW14D (Lab. #: 9732327) Received 11/04					
TCL Semivolatile Organics	(Unlabeled)				
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	J quality	15
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	1 J	3 JB	3 JB	negate	1
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
Benzenesulfonyl chloride, 4-meth (20.22)	?	4 JN	4 JN		
2(3H)-Benzothiazolone (20.43)	ND	9 JN	9 JN		
Unknown Cyclic Acid cpd. (30.31)	ND	3 J	3 J		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Semivolatile Organic Analyses - Method 95-2

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW141 (Lab. #: 9732328) Received 11/04					
TCL Semivolatile Organics (Unlituted)					
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		
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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
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		
2-Chloronaphthalene	10 U	10 U	10 U		
2-Nitroaniline	25 U	25 U	25 U		
Dimethylphthalate	10 U	10 U	10 U		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	10 U	10 U	10 U		
3-Nitroaniline	25 U	25 U	25 U		
Acenaphthene	10 U	1 J	1 J		
2,4-Dinitrophenol	25 U	25 U	25 U		
4-Nitrophenol	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	10 U	10 U	10 U	J qualify	15
4-Nitroaniline	25 U	25 U	25 U		
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U		
N-Nitrosodiphenylamine (1)	10 U	1 J	1 J		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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	1 J	4 JB	4 JB	negate	1
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		
Dibenz(a,h)anthracene	10 U	10 U	10 U		
Benzo(g,h,i)perylene	10 U	10 U	10 U		
Non-Target Semivolatile Organics					
2(3H)-Benzothiazolone (20.41)	ND	7 JN	7 JN		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Samivolatile Organic Analyses - Method 825-2
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW145 (Lab. #: 9732329) Received 11/04					
TCL Semivolatile Organics					
Phenol	(untitled) 10 U	10 U	10 U		
bis(2-Chloroethyl)Ether	10 U	10 U	10 U		
2-Chlorophenol	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		
2-Methylphenol	10 U	10 U	10 U		
bis(2-Chloroisopropyl)ether	10 U	10 U	10 U		
4-Methylphenol	10 U	10 U	10 U		
N-Nitroso-d-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		
1,2,4-Trichlorobenzene	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		
4-Chloro-3-methylphenol	10 U	10 U	10 U		
2-Methylnaphthalene	10 U	10 U	10 U		
Hexachlorocyclopentadiene	10 U	10 U	10 U		
2,4,6-Trichlorophenol	25 U	25 U	25 U		
2,4,5-Trichlorophenol	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		
Acenaphthylene	10 U	10 U	10 U		
2,6-Dinitrotoluene	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	10 U	10 U	10 U		
Dibenzofuran	10 U	10 U	10 U		
2,4-Dinitrotoluene	10 U	10 U	10 U		
Diethylphthalate	10 U	10 U	10 U		
4-Chlorophenyl-phenylether	10 U	10 U	10 U		
Fluorene	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 (1)	10 U	10 U	10 U		
4-Bromophenyl-phenylether	10 U	10 U	10 U		
Hexachlorobenzene	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		
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		

Non-Target Samivolatile Organics
None Detected

quality 15

DATA VALIDATION WORKSHEETS
For the Sonia Road Landfill

Water Semivolatile Organic Analyses - Method 95-1
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008
Laboratory Reference Numbers:

Samples Received 10/31

Trip Blank #5	9732016
MW-03D	9732010
MW-03I	9732011
MW-03S	9732012
MW-10D	9732013
MW10I	9732014
MW-10S	9732015

Trip Blank #6	9732135
MW-11D	9732129
MW-11I	9732130
MW-11S	9732131
MW-12D	9732132
MW-12I	9732133
MW-12S	9732134

Samples Received 11/04

Trip Blank #7	9732347
MW-13D	9732324
MW-13I	9732325
MW-13IMS	9732325MS
MW-13IMSD	9732325MSD
MW-13S	9732326
MW-14D	9732327
MW-14I	9732328
MW-14S	9731329

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY
(Page 1 of 2)**

Instrument ID: H5972

Tune File ID: B02282.D

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: B02283.D

Date: 10/15/97

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Associated Samples: SBLK01, MW-03D, MW-03I, MW-03S, MW-10D, MW-10I, MW-10S, SBLK02, MW-11D, MW-11I, MW-11S, MW-12D, MW-12I, MW-12S, SBLK03, MW-13D, MW-13I, MSB(11/7), MW-13I, MW-13IMS, MW-13IMSD, MW-13S, MW-14D, MW-14I, MW-14S

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<20.5	>0.800	Acenaphthene *	<20.5	>0.800
bis(2-Chloroethyl)Ether *	<20.5	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<20.5	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<20.5	>0.600	Dibenzofuran *	<20.5	>0.800
1,4-Dichlorobenzene *	<20.5	>0.500	2,4-Dinitrotoluene *	<20.5	>0.200
1,2-Dichlorobenzene *	<20.5	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<20.5	>0.700	4-Chlorophenyl-phenylether*	<20.5	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	22%	>0.900
4-Methylphenol *	<20.5	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<20.5	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<20.5	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<20.5	>0.200	4-Bromophenyl-phenylether *	<20.5	>0.100
Isophorone *	<20.5	>0.400	Hexachlorobenzene *	<20.5	>0.100
2-Nitrophenol *	<20.5	>0.100	Pentachlorophenol *	<20.5	>0.050
2,4-Dimethylphenol *	<20.5	>0.200	Phenanthrene *	<20.5	>0.700
bis(2-Chloroethoxy)methane *	<20.5	>0.1000	Anthracene *	<20.5	>0.700
2,4-Dichlorophenol *	<20.5	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<20.5	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<20.5	>0.700	Fluoranthene *	<20.5	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<20.5	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<20.5	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<20.5	>0.400	Benzo(a)anthracene *	<20.5	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<20.5	>0.700
2,4,6-Trichlorophenol *	<20.5	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<20.5	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<20.5	>0.800	Benzo(b)fluoranthene *	<20.5	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<20.5	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<20.5	>0.700
Acenaphthylene *	<20.5	>0.1000	Indeno(1,2,3-cd)pyrene *	<20.5	>0.500
2,6-Dinitrotoluene *	<20.5	>0.200	Dibenz(a,h)anthracene *	<20.5	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<20.5	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<20.5	>0.700			
Terphenyl-d14 *	<20.5	>0.500			
Phenol-d5 *	<20.5	>0.800			
2-Fluorophenol *	<20.5	>0.600			
2,4,6-Tribromophenol	<100	>0.010			
2-Chlorophenol-d4 *	<20.5	>0.800			
1,2-Dichlorobenzene-d4 *	<20.5	>0.400			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

Footnote:

All Compounds %RSD < QC Limit: yes

Footnote:

**SEMIVOLATILE ORGANICS
INITIAL CALIBRATION SUMMARY**
(Page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

Compound:
PPB

2-Nitrophenol

Fluoranthene

20	$14440/93088 * 2.000 = 0.310$
50	$29225/87864 * 0.800 = 0.265$
80	$55123/116842 * 0.500 = 0.236$
120	$86792/112529 * 0.333 = 0.257$
160	$124028/127712 * 0.250 = 0.243$

$57292/86647 * 2.000 = 1.322$
$142976/91586 * 0.800 = 1.249$
$240974/115771 * 0.500 = 1.041$
$379840/112005 * 0.333 = 1.129$
$534937/133631 * 0.250 = 1.001$

AV. RRF = 0.262 %RSD = 11.2%

AV. RRF = 1.148 %RSD = 12.0

**SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 1 of 2)**

Instrument ID: H5972

Tune File ID: B02430.D

Calibration File ID: B02431.D

Initial Calibration File ID: B02283.D

Associated Samples: SBLK01

Acceptable: yes

Date: 11/06/97

Date: 10/15/97

Time Requirements Met: yes

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TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<25.0	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.1000	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>0.1000	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<25.0	>0.80			
1,2-Dichlorobenzene-d4 *	<25.0	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Acenaphthene
 PPB

Hexachlorobenzene

50 152236/99484 * 0.800 = 1.224

61419/168187 * 0.800 = 0.292

PERCENT DIFFERENCE:

$$(1.148 - 1.224) / 1.148 * 100 = -6.620209$$

$$(0.311 - 0.292) / 0.311 * 100 = 6.109325$$

METHOD BLANK: SBLK01 (Page 315)

Associated with samples MW-03D, MW-03I, MW-03S, MW-10D, MW-10I, MW-10S

Compound

ppb

<CRDL

No compounds were detected in this method blank.

METHOD BLANK: SBLK02 (Page 323)

Associated with samples MW-11D, MW-11I, MW-11S, MW-12D, MW-12I, MW-12S

Compound

ppb

<CRDL

Unknown Alkane (5.65)

2J

NA

2-Pentanone,4-hydroxy-4-methyl (6.72)

93JNA

NA

METHOD BLANK: SBLK03 (Page 333)

Associated with samples MW-13D, MW-13I, MSB(11/7), MW-13IMS, MW-13IMSD, MW-13S, MW-14D, MW-14S, MW-14I

Compound

ppb

<CRDL

Bis(2-Ethylhexyl)Phthalate

1J

10

Unknown (35.55)

4J

NA

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5972

Tune File ID: B02496.D

Calibration File ID: B02497.D

Initial Calibration File ID: B02283.D

Associated Samples: MW-03D, MW-03I, MW-03S, MW-10D, MW-10I, MW-10S

Acceptable: yes

Date: 11/14/97

Date: 10/15/97

Time Requirements Met: yes

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TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether*	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<25.0	>0.100	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.100	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>0.1000	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<25.0	>0.80			
1,2-Dichlorobenzene-d4 *	<25.0	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: Naphthalene
PPB

Pentachlorophenol

50 376502/292642 * 0.800 = 1.029

59053/298517 * 0.800 = 0.158

PERCENT DIFFERENCE:

$$(1.059 - 1.029) / 1.059 * 100 = 2.832861$$

$$(0.210 - 0.158) / 0.210 * 100 = 24.761905$$

METHOD BLANK: SBLK
Compound

(Page)

ppb

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SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5972

Tune File ID: B02510.D

Calibration File ID: B02511.D

Initial Calibration File ID: B02283.D

Associated Samples: SBLK02, MW-11D, MW-11I, MW-11S, MW-12D, MW-12I, MW-12S, SBLK03, MW-13D, MW-13I

Acceptable: yes

Date: 11/16/97

Date: 10/15/97

Time Requirements Met: yes

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TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether *	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<25.0	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.1000	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>0.1000	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<25.0	>0.80			
1,2-Dichlorobenzene-d4 *	<25.0	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: 2,4,6-Trichlorophenol
PPB

Hexachlorobenzene

50 98976/187559 * 0.800 = 0.422

108770/325907 * 0.800 = 0.267

PERCENT DIFFERENCE:

$$(0.438 - 0.422) / 0.438 * 100 = 3.652968$$

$$(0.311 - 0.267) / 0.311 * 100 = 14.14791$$

METHOD BLANK: SBLK
Compound

(Page)

ppb

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SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
 (page 1 of 2)

Instrument ID: H5972

Tune File ID: B02524.D

Calibration File ID: B02525.D

Initial Calibration File ID: B02283.D

Acceptable: yes

Date: 11/17/97

Date: 10/15/97

Time Requirements Met: yes

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Associated Samples: MSB(11/7), MW-13I, MW-13IMS, MW-13MSD, MW-13S, MW-14D, MW-14I, MW-14S

TCL COMPOUND LIST

	%RSD	RRF		RSD	RRF
Phenol *	<25.0	>0.800	Acenaphthene *	<25.0	>0.800
bis(2-Chloroethyl)Ether *	<25.0	>0.700	2,4-Dinitrophenol	<100	>0.010
2-Chlorophenol *	<25.0	>0.800	4-Nitrophenol	<100	>0.010
1,3-Dichlorobenzene *	<25.0	>0.600	Dibenzofuran *	<25.0	>0.800
1,4-Dichlorobenzene *	<25.0	>0.500	2,4-Dinitrotoluene *	<25.0	>0.200
1,2-Dichlorobenzene *	<25.0	>0.400	Diethylphthalate	<100	>0.010
2-Methylphenol *	<25.0	>0.700	4-Chlorophenyl-phenylether*	<25.0	>0.400
2,2'-oxybis(1-Chloropropane)	<100	>0.010	Fluorene *	<25.0	>0.900
4-Methylphenol *	<25.0	>0.600	4-Nitroaniline	<100	>0.010
N-Nitroso-di-n-propylamine *	<25.0	>0.500	4,6-Dinitro-2-methylphenol	<100	>0.010
Hexachloroethane *	<25.0	>0.1000	N-Nitrosodiphenylamine	<100	>0.010
Nitrobenzene *	<25.0	>0.200	4-Bromophenyl-phenylether *	<25.0	>0.100
Isophorone *	<25.0	>0.400	Hexachlorobenzene *	<25.0	>0.100
2-Nitrophenol *	<25.0	>0.100	Pentachlorophenol *	<25.0	>0.050
2,4-Dimethylphenol *	<25.0	>0.200	Phenanthrene *	<25.0	>0.700
bis(2-Chloroethoxy)methane *	<25.0	>0.1000	Anthracene *	<25.0	>0.700
2,4-Dichlorophenol *	<25.0	>0.200	Carbazole	<100	>0.010
1,2,4-Trichlorobenzene *	<25.0	>0.200	Di-n-butylphthalate	<100	>0.010
Naphthalene *	<25.0	>0.700	Fluoranthene *	<25.0	>0.600
4-Chloroaniline	<100	>0.010	Pyrene *	<25.0	>0.600
Hexachlorobutadiene	<100	>0.010	Butylbenzylphthalate	<100	>0.010
4-Chloro-3-methylphenol *	<25.0	>0.200	3,3'-Dichlorobenzidine	<100	>0.010
2-Methylnaphthalene *	<25.0	>0.400	Benzo(a)anthracene *	<25.0	>0.800
Hexachlorocyclopentadiene	<100	>0.010	Chrysene *	<25.0	>0.700
2,4,6-Trichlorophenol *	<25.0	>0.200	bis(2-Ethylhexyl)phthalate	<100	>0.010
2,4,5-Trichlorophenol *	<25.0	>0.200	Di-n-octylphthalate	<100	>0.010
2-Chloronaphthalene *	<25.0	>0.800	Benzo(b)fluoranthene *	<25.0	>0.700
2-Nitroaniline	<100	>0.010	Benzo(k)fluoranthene *	<25.0	>0.700
Dimethylphthalate	<100	>0.010	Benzo(a)pyrene *	<25.0	>0.700
Acenaphthylene *	<25.0	>0.1000	Indeno(1,2,3-cd)pyrene *	<25.0	>0.500
2,6-Dinitrotoluene *	<25.0	>0.200	Dibenz(a,h)anthracene *	<25.0	>0.400
3-Nitroaniline	<100	>0.010	Benzo(g,h,i)perylene *	<25.0	>0.500
Surrogates:					
Nitrobenzene-d5 *	<100	>0.200			
2-Fluorobiphenyl *	<25.0	>0.700			
Terphenyl-d14 *	<25.0	>0.500			
Phenol-d5 *	<25.0	>0.800			
2-Fluorophenol *	<25.0	>0.60			
2,4,6-Tribromophenol	<100	>0.01			
2-Chlorophenol-d4 *	<25.0	>0.80			
1,2-Dichlorobenzene-d4 *	<25.0	>0.40			

All Compounds Average RRF > QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %D < QC Limit: yes

All Compounds %D < 25%: yes

Footnote:

Footnote:

SEMIVOLATILE ORGANICS
CONTINUING CALIBRATION SUMMARY
(page 2 of 2)

CALCULATION VERIFICATION:

$$(RRF = Ais/Ax * Cis/Cs)$$

COMPOUND: 2,4-Dimethylphenol
PPB

Dibenz[a,h]anthracene

50 120325/265247 * 0.800 = 0.363

231097/221067 * 0.800 = 0.836

PERCENT DIFFERENCE:

$$(0.416 - 0.363) / 0.416 * 100 = 12.740385$$

$$(0.961 - 0.836) / 0.961 * 100 = 13.007284$$

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill

TCL Pesticides and PCBs - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Laboratory Reference Numbers:

Samples Received 10/31

MW-03D	9732010
MW-03I	9732011
MW-03S	9732012
MW-10D	9732013
MW-10I	9732014
MW-10S	9732015
MW-11D	9732129
MW-11I	9732130
MW-11S	9732131
MW-12D	9732132
MW-12I	9732133
MW-12S	9732134

Samples Received 11/04

MW-13D	9732324
MW-13I	9732325
MW-13IMS	9732325MS
MW-13IMSD	9732325MSD
MW-13S	9732326
MW-14D	9732327
MW-14I	9732328
MW-14S	9731329

Water samples were received for analyses of the pesticide and PCB TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Laboratory Blanks
 - Field Blanks
 - Surrogate Recoveries
- * - Surrogate Retention Times
- * - Matrix Spike / Matrix Spike Duplicate
- * - Blank Spike
- * - Calibrations
- * - Analyte Resolutions
- * - Performance Evaluation Mixtures
- * - IND A and IND B Standards
- * - Florisil Cartridge Check
- * - GPC Calibration
- * - Compound Identification
 - Method Detection Limit

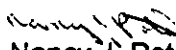
* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The low DCB recoveries in several samples should be noted.

The instrument detection limits were analyzed approximately 10 months prior to the analysis of the samples. The NYS DEC ASP program requires that these be analyzed every 6 months.

No other problems were found with the analyses of these samples which would affect the end use of the data.


Nancy J. Potak
December 20, 1997

Holding Times

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

All surrogate recoveries were within the required quality assurance limits with the following exceptions:

	TCX 1	TCX 2	DCB 1	DCB 2
MW03D			22%	23%
MW11D			18%	17%
MW-11I			19%	20%
MW12D			15%	10%
MW-12S			19%	22%
MW131MS			20%	23%
MW131MSD			19%	22%
MW-14D			18%	20%
MW14I			20%	22%

The data for the above samples were not qualified in the data validation summary table since only one surrogate was outside of the quality assurance limits. EPA data validation guidelines do not require the data to be qualified for a low recovery of one surrogate.

It is possible that very low concentrations of pesticides and PCBs may have been overlooked in these samples.

Matrix Spike / Matrix Spike Duplicate

Sample MW-13I (Lab. #: 9732325) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits.

Blank Spike

Three blank spikes were analyzed with this sample delivery group. All of the blank spike recoveries were within the acceptable limits with the one exception of the endrin recovery in the third blank spike (124%) which was above the upper quality assurance limit of 121%. This high recovery did not affect the data since endrin was not detected in any of the samples of this delivery group.

The blank spike summary form (FORM III, page 7) noted that all of the spike recoveries were within the acceptable quality assurance limits. The laboratory has not been asked to revise this form.

Initial Calibrations

No problems were found with any of the initial calibrations.

The percent RSD of each of the single component pesticides must be less than 20%. The percent RSD of the two surrogates must be less than or equal to 30%. Up to two single compound target compounds per column may exceed the 20% limit for the %RSD, but those compounds must have a percent RSD of less than or equal to 30.0%. All of these requirements were met in the initial calibration.

Analyte Resolution

All percent resolutions were greater than 60% on both the RTX-5 and RTX-35 columns for both calibrations.

Performance Evaluation Mixtures

Several minor problems with resolution were found between gamma-BHC and beta-BHC (94%) in several of the PEM standards. The NYS DEC ASP program requires that the resolution between all compounds in this standard be 100% (page E-89).

The relative percent difference of the calculated amount and the true amount for each of the single component pesticides and surrogates in the PEMs must be less than or equal to 25%.

No problems were found with any of the performance evaluation mixtures.

Continuing Calibrations - IND A & IND B

All percent resolutions were greater than 90% on both the DB-608 and DB-1701 columns.

The relative percent difference of the calculated amount and the true amount for each of the single component pesticides and surrogates in the INDA and INDB standards must be less than or equal to 25%.

No other problems were detected with the continuing calibrations.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

Florisil Cartridge Check

All recoveries were within the 80% - 120% quality assurance limits.

The florisil cartridge check was performed on 1/20/97.

GPC Calibration

All of the GPC summary data were within the acceptable limits.

Method Blanks

No compounds were detected in either of the three the method blanks.

Calibration Blanks

No compounds were detected in any of the calibration blanks.

Field Blanks

Field blanks were not collected with this sample delivery group.

Instrument Detection Limits

The instrument detection limits were analyzed approximately 10 months prior to the analysis of the samples. The NYS DEC ASP program requires that these be analyzed every 6 months.

No other problems were found with the reported instrument detection limits.

Sample Results

No problems, other than noted above, were detected with any of the samples.

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW03D (Lab. #: 9732010) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW031 (Lab. #: 9732011) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW03S (Lab. #: 9732012) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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' - ODD	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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported - Conc. Decision		
Sample MW10D (Lab. #: 9732013) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 96-3
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA	
			Validation Reported Conc.	Footnotes
			Conc.	
			Decision	
Sample MW10S (Lab. #: 9732015) Received 10/31				
Pesticides & PCBs	(Undiluted)			
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	0.050 U	0.050 U	
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	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW11D (Lab. #: 9732129) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	QA			
	Method	Lab.	Validation	Qualifiers
	Blank Conc. (PPB)	Reported Conc. (PPB)	Reported Conc. Decision	
Sample MW111 (Lab. #: 9732130) Received 10/31				
Pesticides & PCBs (Undiluted)				
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	0.050 U	0.050 U	
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	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW11S (Lab. #: 9732131) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc.	Footnotes
Sample MW12D (Lab. #: 9732132) Received 10/31				
Pesticides & PCBs	(Undiluted)			
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	0.050 U	0.050 U	
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	

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW121 (Lab. #: 9732133) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW12S (Lab. #: 9732134) Received 10/31					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3
Water Samples Received: October 31st through November 4th, 1997
Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW13D (Lab. #: 9732324) Received 11/4					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW131 (Lab. #: 9732325) Received 11/4					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method	Lab.	QA	Qualifiers	Footnotes
	Blank Conc. (PPB)	Reported Conc. (PPB)	Validation Reported Conc. Decision		
Sample MW13S (Lab. #: 9732326) Received 11/4					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW14D (Lab. #: 9732327) Received 11/4					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 95-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW14I (Lab. #: 9732328) Received 11/4					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Data Validation Summary Table
For the Sonia Road Landfill

Water TCL Pesticide and PCB Analyses - Method 96-3

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW14S (Lab. #: 9732329) Received 11/4					
Pesticides & PCBs	(Undiluted)				
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	0.050 U	0.050 U		
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		

Initial Calibration - 11/7																			
Sheet1																			
INDAL																			
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Page:		Date:		Time:															
								RTX-35				RTX-5				RTX-35			
								#2 Calc.				RT Window #1				RT Window #2			
		RTX-6		RTX-35		RTX-5		RTX-35		#1 Calc.									
		RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C		Cal. Fac.		Conc.	

Initial Calibration																			Sheet1																																					
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Page: 222																			Date: 11/7/97																			Time: 12:16																		

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INDAM02		Form VII Raw Data	Page: Page:	236	Date: 11/8/97	Time: 15:31	Sheet2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Initial Calibration - 11/10/97																	
Sheet1																	
INDAL																	
Page: 403		Date:		Time: 2:35													
								RTX-35				RTX-5		RTX-35			
								#2 Calc.				RT Window #1		RT Window #2			
		RTX-5		RTX-35		RTX-5		RTX-35		#1 Calc.							
		RT1		RT2		Resp 1		Resp 2		Cal. Fac.		Conc.		R/C			

Initial Calibration																		
INDAM																		
Page: 287 Date: Time:																		
RTX-35 RTX-6 RTX-35																		
RTX-5 RTX-35 #1 Calc. #2 Calc. RTX-6 RTX-35																		
RT1 RT2 Resp 1 Resp 2 Cal. Fac. Conc. R/C Cal. Fac. Conc. R/C From To OK From To OK CF 1 CF 2																		
alpha-BHC					0	0.0200	0.00	0	0.0200	0.00	8.49	8.59		10.87	10.97		3,092,151	4,018,063
beta-BHC											9.34	9.44		12.55	12.65		1,563,334	2,410,568
delta-BHC											10.29	10.39		13.80	13.90		2,701,926	3,434,175
gamma-BHC (Lindane)					0	0.0200	0.00	0	0.0200	0.00	9.51	9.61		12.24	12.34		2,920,866	3,760,403
Heptachlor					0	0.0200	0.00	0	0.0200	0.00	11.77	11.87		13.63	13.73		2,874,067	4,526,146
Aldrin											12.89	12.99		14.64	14.74		2,669,509	4,447,354
Heptachlor Epoxide											14.14	14.28		15.99	16.13		2,469,596	3,843,312
Endosulfan I					0	0.0200	0.00	0	0.0200	0.00	15.05	15.19		16.92	17.06		2,073,767	3,056,727
Dieldrin					0	0.0400	0.00	0	0.0400	0.00	15.67	15.91		17.69	17.83		2,131,157	3,479,351
4,4'- DDE											15.57	15.71		17.44	17.58		2,049,883	3,485,745
Endrin					0	0.0400	0.00	0	0.0400	0.00	16.19	16.33		18.57	18.71		1,826,434	2,224,775
Endosulfan II											16.42	16.56		19.05	19.19		1,859,419	2,093,683
4,4' - DDD					0	0.0400	0.00	0	0.0400	0.00	16.57	16.71		18.86	19.00		1,519,781	2,425,336
Endosulfan Sulfate											17.44	17.58		20.28	20.42		1,390,499	2,631,460
4,4'-DDT	17.53	19.75	116,762	214,193	1,459,525	0.0400	1.00	2,677,413	0.0400	1.00	17.46	17.60		19.68	19.82		1,459,521	2,677,413
Methoxychlor	18.92	21.87	300,976	388,411	752,440	0.2000	1.00	971,028	0.2000	1.00	18.85	18.99		21.80	21.94		752,441	971,027
Endrin Ketone											18.62	18.86		22.18	22.32		1,907,253	1,877,818
Endrin Aldehyde											16.87	17.01		19.84	19.98		1,615,561	2,114,117
alpha-Chlordane											15.11	15.25		16.87	17.01		2,398,596	3,850,828
gamma-Chlordane											14.75	14.89		16.49	16.63		2,428,025	3,805,680
TCX					0	0.0200	0.00	0	0.0200	0.00	7.27	7.37		8.49	8.59		2,271,222	4,476,668
DCB					0	0.0400	0.00	0	0.0400	0.00	23.23	23.43		26.13	26.33		1,887,023	2,114,090
INDBM																		
Page: 290 Date: Time:																		
RTX-35 RTX-6 RTX-35																		
RTX-5 RTX-35 #1 Calc. #2 Calc. RTX-6 RTX-35																		
RT1 RT2 Resp 1 Resp 2 Cal. Fac. Conc. R/C Cal. Fac. Conc. R/C From To OK From To OK CF 1 CF 2																		
alpha-BHC											8.49	8.59		10.87	10.97		3,092,151	4,018,063
beta-BHC					0	0.0200	0.00	0	0.0200	0.00	9.34	9.44		12.55	12.65		1,563,334	2,410,568
delta-BHC					0	0.0200	0.00	0	0.0200	0.00	10.29	10.39		13.80	13.90		2,701,926	3,434,175
gamma-BHC (Lindane)											9.51	9.61		12.24	12.34		2,920,866	3,760,403
Heptachlor											11.77	11.87		13.63	13.73		2,874,067	4,526,146
Aldrin					0	0.0200	0.00	0	0.0200	0.00	12.89	12.99		14.64	14.74		2,669,509	4,447,354
Heptachlor Epoxide					0	0.0200	0.00	0	0.0200	0.00	14.14	14.28		15.99	16.13		2,469,596	3,843,312
Endosulfan I											15.05	15.19		16.92	17.06		2,073,767	3,056,727
Dieldrin											15.67	15.91		17.69	17.83		2,131,157	3,479,351
4,4'- DDE					0	0.0400	0.00	0	0.0400	0.00	15.57	15.71		17.44	17.58		2,049,883	3,485,745
Endrin											16.19	16.33		18.57	18.71		1,826,434	2,224,775
Endosulfan II					0	0.0400	0.00	0	0.0400	0.00	16.42	16.56		19.05	19.19		1,859,419	2,093,683
4,4' - DDD											16.57	16.71		18.86	19.00		1,519,781	2,425,336
Endosulfan Sulfate					0	0.0400	0.00	0	0.0400	0.00	17.44	17.58		20.28	20.42		1,390,499	2,631,460
4,4'-DDT											17.46	17.60		19.68	19.82		1,459,521	2,677,413
Methoxychlor											18.85	18.99		21.80	21.94		752,441	971,027
Endrin Ketone	18.68	22.25	152,580	150,225	1,907,250	0.0400	1.00	1,877,813	0.0400	1.00	18.62	18.86		22.18	22.32		1,907,253	1,877,818
Endrin Aldehyde	16.94	19.91	129,245	169,129	1,615,563	0.0400	1.00	2,114,113	0.0400	1.00	16.87	17.01		19.84	19.98		1,615,561	2,114,117
alpha-Chlordane	15.18	16.94	95,944	154,033	2,398,600	0.0200	1.00	3,850,825	0.0200	1.00	15.11	15.25		16.87	17.01		2,398,596	3,850,828
gamma-Chlordane					0	0.0200	0.00	0	0.0200	0.00	14.75	14.89		16.49	16.63		2,428,025	3,805,680
TCMX					0	0.0200	0.00	0	0.0200	0.00	7.27	7.37		8.49	8.59		2,271,222	4,476,668
DCB					0	0.0400	0.00	0	0.0400	0.00	23.23	23.43		26.13	26.33		1,887,023	2,114,090

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INDAM02																					
Form VII	Page:																				
Raw Data	Page:	301	Date:	11/11/97	Time:	10:40			Sheet	2											
Form VII	Page:																				
Raw Data	Page:	424																			
						Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2					
		RTX-6	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2
alpha-BHC						0.0000	0.0400	100.00	OUT	0.000	0.0400	100.00	OUT	8.49	8.59		10.87	10.97		3,092,151	4,018,063
beta-BHC														9.34	9.44		12.55	12.65		1,563,334	2,410,568
delta-BHC														10.29	10.39		13.80	13.90		2,701,926	3,434,175
gamma-BHC (Lindane)						0.0000	0.0400	100.00	OUT	0.000	0.0400	100.00	OUT	9.51	9.61		12.24	12.34		2,920,866	3,760,403
Heptachlor						0.0000	0.0400	100.00	OUT	0.000	0.0400	100.00	OUT	11.77	11.87		13.63	13.73		2,874,067	4,526,146
Aldrin														12.89	12.99		14.64	14.74		2,669,509	4,447,354
Heptachlor Epoxide														14.14	14.28		15.99	16.13		2,469,566	3,843,312
Endosulfan I	15.12	17.00	83,972	116,007		0.0405	0.0400	-1.23	OK	0.038	0.0400	5.12	OK	15.05	15.19		16.92	17.06		2,073,767	3,056,727
Dieldrin						0.0000	0.0800	100.00	OUT	0.000	0.0800	100.00	OUT	15.67	15.91		17.69	17.83		2,131,157	3,479,351
4,4'- DDE														15.57	15.71		17.44	17.58		2,049,883	3,485,745
Endrin						0.0000	0.0800	100.00	OUT	0.000	0.0800	100.00	OUT	16.19	16.33		18.57	18.71		1,826,434	2,224,775
Endosulfan II														16.42	16.56		19.05	19.19		1,859,419	2,093,683
4,4' - DDD						0.0000	0.0800	100.00	OUT	0.000	0.0800	100.00	OUT	16.57	16.71		18.86	19.00		1,519,781	2,425,336
Endosulfan Sulfate														17.44	17.58		20.28	20.42		1,390,499	2,631,460
4,4'-DDT	17.54	19.76	129,746	181,341		0.0889	0.0800	-11.12	OK	0.068	0.0800	15.34	OK	17.46	17.60		19.68	19.82		1,459,521	2,677,413
Methoxychlor						0.0000	0.4000	100.00	OUT	0.000	0.4000	100.00	OUT	18.85	18.99		21.80	21.94		752,441	971,027
Endrin Ketone														18.62	18.86		22.18	22.32		1,907,253	1,877,818
Endrin Aldehyde														16.87	17.01		19.84	19.98		1,615,561	2,114,117
alpha-Chlordane														15.11	15.25		16.87	17.01		2,398,596	3,850,828
gamma-Chlordane														14.75	14.89		16.49	16.63		2,428,025	3,805,680
TCX						0.0000	0.0400	100.00	OUT	0.000	0.0400	100.00	OUT	7.27	7.37		8.49	8.59		2,271,222	4,476,668
DCB						0.0000	0.0800	100.00	OUT	0.000	0.0800	100.00	OUT	23.23	23.43		26.13	26.33		1,887,023	2,114,090
INDBM02																					
Form VII	Page:																				
Raw Data	Page:	305	Date:	11/11/97	Time:	11:16															
Form VII	Page:																				
Raw Data	Page:	427																			
						Calc.	Nom.		RT	Calc.	Nom.		RT	RT Window #1		RT Window #2					
		RTX-6	RTX-35	Resp 1	Resp 2	Amt. #1	Amt. #1	RPD	OK	Amt. #2	Amt. #2	RPD	OK	From	To	OK	From	To	OK	CF 1	CF 2
alpha-BHC														8.49	8.59		10.87	10.97		3,092,151	4,018,063
beta-BHC						0.0000	0.0400	100.00	OUT	0.000	0.0200	0.0400	OUT	9.34	9.44		12.55	12.65		1,563,334	2,410,568
delta-BHC						0.0000	0.0400	100.00	OUT	0.000	0.0200	0.0400	OUT	10.29	10.39		13.80	13.90		2,701,926	3,434,175
gamma-BHC (Lindane)														9.51	9.61		12.24	12.34		2,920,866	3,760,403
Heptachlor														11.77	11.87		13.63	13.73		2,874,067	4,526,146
Aldrin	12.95	14.70	107,393	172,893		0.0402	0.0400	-0.57	OK	0.039	0.0200	0.0400	OK	12.89	12.99		14.64	14.74		2,669,509	4,447,354
Heptachlor Epoxide						0.0000	0.0400	100.00	OUT	0.000	0.0200	0.0400	OUT	14.14	14.28		15.99	16.13		2,469,566	3,843,312
Endosulfan I														15.05	15.19		16.92	17.06		2,073,767	3,056,727
Dieldrin														15.67	15.91		17.69	17.83		2,131,157	3,479,351
4,4'- DDE						0.0000	0.0800	100.00	OUT	0.000	0.0400	0.0800	OUT	15.57	15.71		17.44	17.58		2,049,883	3,485,745
Endrin														16.19	16.33		18.57	18.71		1,826,434	2,224,775
Endosulfan II	16.50	19.14	142,679	189,058		0.0767	0.0800	4.08	OK	0.090	0.0400	0.0800	OK	16.42	16.56		19.05	19.19		1,859,419	2,093,683
4,4' - DDD						0.0000	0.0800	100.00	OUT	0.000	0.0400	0.0800	OUT	16.57	16.71		18.86	19.00		1,519,781	2,425,336
Endosulfan Sulfate														17.44	17.58		20.28	20.42		1,390,499	2,631,460
4,4'-DDT														17.46	17.60		19.68	19.82		1,459,521	2,677,413
Methoxychlor														18.85	18.99		21.80	21.94		752,441	971,027
Endrin Ketone						0.0000	0.0800	100.00	OUT	0.000	0.0400	0.0800	OUT	18.62	18.86		22.18	22.32		1,907,253	1,877,818
Endrin Aldehyde						0.0000	0.0800	100.00	OUT	0.000	0.0400	0.0800	OUT	16.87	17.01		19.84	19.98		1,615,561	2,114,117
alpha-Chlordane	15.18	16.95	93,092	140,065		0.0388	0.0400	2.97	OK	0.036	0.0200	0.0400	OK	15.11	15.25		16.87	17.01		2,398,596	3,850,828
gamma-Chlordane						0.0000	0.0400	100.00	OUT	0.000	0.0200	0.0400	OUT	14.75	14.89		16.49	16.63		2,428,025	3,805,680
TCX						0.0000	0.0400	100.00	OUT	0.000	0.0200	0.0400	OUT	7.27	7.37		8.49	8.59		2,271,222	4,476,668
DCB						0.0000	0.0800	100.00	OUT	0.000	0.0400	0.0800	OUT	23.23	23.43		26.13	26.33		1,887,023	2,114,090

Initial Calibration - 11/12/97																			Sheet1																		
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																			RTX-36																		
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																			RT Window #1																		
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																			CF 1																		
																			CF 2																		
alpha-BHC																			8.56																		
beta-BHC																			10.94																		
delta-BHC																			28,491																		
gamma-BHC (Lindane)																			53,953																		
Heptachlor																			2,849,100																		
Aldrin																			0.0050																		
Heptachlor Epoxide																			1.00																		
Endosulfan I																			5,395,300																		
Dieldrin																			0.0050																		
4,4'- DDE																			1.00																		
Endrin																			5,042,200																		
Endosulfan II																			0.0050																		
4,4' - DDD																			1.00																		
Endosulfan Sulfate																			5,228,100																		
4,4'-DDT																			0.0050																		
Methoxychlor																			1.00																		
Endrin Ketone																			11,79																		
Endrin Aldehyde																			11,89																		
alpha-Chlordane																			13,66																		
gamma-Chlordane																			13,76																		
TCX																			14,66																		
DCB																			16,01																		
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																			2,535,502																		
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																			RT Window #1																		
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																			OK																		
																			CF 1																		
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alpha-BHC																			8.51																		
beta-BHC																			8.61																		
delta-BHC																			10,90																		
gamma-BHC (Lindane)																			11,00																		
Heptachlor																			12,58																		
Aldrin																			12,68																		
Heptachlor Epoxide																			13,83																		
Endosulfan I																			13,93																		
Dieldrin																			10,31																		
4,4'- DDE																			10,41																		
Endrin																			12,27																		
Endosulfan II																			12,37																		
4,4' - DDD																			13,66																		
Endosulfan Sulfate																			13,76																		
4,4'-DDT																			14,66																		
Methoxychlor																			16,01																		
Endrin Ketone																			16,15																		
Endrin Aldehyde																			2,535,502																		
alpha-Chlordane																			4,362,134																		
gamma-Chlordane																			2,059,914																		
TCMX																			3,828,517																		
DCB																			2,009,068																		
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Initial Calibration																		
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Page: 391 Date: Time:																		
RTX-35 RTX-6 RTX-36																		
RT1 RT2 Resp 1 Resp 2 #1 Calc. Conc. R/C #2 Calc. Conc. R/C RT Window #1 RT Window #2 OK From To OK From To OK CF 1 CF 2																		
alpha-BHC					0	0.0200	0.00	0	0.0200	0.00	8.51	8.61	OK	10.90	11.00		3,279,639	4,995,361
beta-BHC											9.36	9.46		12.58	12.68		1,662,242	2,847,552
delta-BHC											10.31	10.41		13.83	13.93		2,930,620	4,076,290
gamma-BHC (Lindane)					0	0.0200	0.00	0	0.0200	0.00	9.53	9.63		12.27	12.37		3,096,974	4,613,694
Heptachlor					0	0.0200	0.00	0	0.0200	0.00	11.79	11.89		13.66	13.76		3,099,166	4,683,384
Aldrin											12.91	13.01		14.66	14.76		2,829,591	4,544,647
Heptachlor Epoxide											14.16	14.30		16.01	16.15		2,605,836	4,097,618
Endosulfan I					0	0.0200	0.00	0	0.0200	0.00	15.06	15.20		16.94	17.08		2,170,739	3,592,331
Dieldrin					0	0.0400	0.00	0	0.0400	0.00	15.68	15.82		17.71	17.85		2,221,121	3,557,101
4,4'- DDE											15.59	15.73		17.46	17.60		2,151,209	3,561,375
Endrin					0	0.0400	0.00	0	0.0400	0.00	16.21	16.35		18.59	18.73		1,903,496	2,436,678
Endosulfan II											16.44	16.58		19.08	19.22		1,948,050	2,692,208
4,4' - DDD					0	0.0400	0.00	0	0.0400	0.00	16.59	16.73		18.88	19.02		1,611,129	2,683,881
Endosulfan Sulfate											17.46	17.60		20.30	20.44		1,512,599	2,495,766
4,4'-DDT	17.55	19.77	123,626	197,757	1,545,325	0.0400	1.00	2,471,963	0.0400	1.00	17.48	17.62		19.70	19.84		1,545,326	2,471,960
Methoxychlor	18.93	21.89	323,020	377,488	807,550	0.2000	1.00	943,720	0.2000	1.00	18.86	19.00		21.82	21.96		807,551	943,721
Endrin Ketone											18.63	18.77		22.21	22.35		2,013,542	2,406,040
Endrin Aldehyde											16.89	17.03		19.87	20.01		1,684,818	2,328,503
alpha-Chlordane											15.12	15.26		16.89	17.03		2,512,107	3,969,839
gamma-Chlordane											14.77	14.91		16.51	16.65		2,545,232	3,894,734
TCX					0	0.0200	0.00	0	0.0200	0.00	7.28	7.38		8.51	8.61		2,378,469	4,622,552
DCB					0	0.0400	0.00	0	0.0400	0.00	23.25	23.45		26.16	26.36		1,915,427	2,142,895
INDBM																		
Page: 394 Date: Time:																		
RTX-35 RTX-6 RTX-36																		
RT1 RT2 Resp 1 Resp 2 #1 Calc. Conc. R/C #2 Calc. Conc. R/C RT Window #1 RT Window #2 OK From To OK From To OK CF 1 CF 2																		
alpha-BHC											8.51	8.61		10.90	11.00		3,279,639	4,995,361
beta-BHC					0	0.0200	0.00	0	0.0200	0.00	9.36	9.46		12.58	12.68		1,662,242	2,847,552
delta-BHC					0	0.0200	0.00	0	0.0200	0.00	10.31	10.41		13.83	13.93		2,930,620	4,076,290
gamma-BHC (Lindane)											9.53	9.63		12.27	12.37		3,096,974	

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INDAM03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

TAL Inorganic and Cyanide Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Laboratory Reference Numbers:

Samples Received 10/31

MW-03D	9732010
MW-03I	9732011
MW-03S	9732012
MW-10D	9732013
MW10I	9732014
MW-10S	9732015
MW-11D	9732129
MW-11I	9732130
MW-11S	9732131
MW-12D	9732132
MW-12I	9732133
MW-12S	9732134

Samples Received 11/04

MW-13D	9732324
MW-13I	9732325
MW-13IMS	9732325MS
MW-13IMSD	9732325MSD
MW-13S	9732326
MW-14D	9732327
MW-14I	9732328
MW-14S	9731329

Water samples were received for TAL metals analyses by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
- * - CRDL Standards
- * - ICP Interference Check Sample
- * - Laboratory Control Sample
- * - Serial Dilutions
- * - Laboratory Blanks
 - Field Blanks
- * - Preparation Blanks
- * - Matrix Spike
- * - Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
- * - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

No problems were found which would affect the end use of the data.


Nancy J. Potak
December 27, 1997

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

The recoveries of all CRDL standards were within the 80% to 120% quality assurance limits.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

All of the traditional furnace analytes which were analyzed by ICP were also included in solution AB.

Matrix Spike Recovery

Sample MW-13I (Lab. #: 9732325) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte list. All recoveries were within the acceptable quality assurance limits (75% - 125%).

Duplicate Analysis

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCL analyte list. All recoveries which could be calculated were within the acceptable limits (+/- 20%).

Laboratory Control Sample

No problems were detected with the recoveries of the water LCS standard.

Serial Dilutions

Sample MW-02S (Lab. #: 9731512) of this sample delivery group was also used for the serial dilution. All of the percent differences which could be calculated were within the required quality assurance limits ($\pm 10\%$).

Instrument Detection Limit

No problems were found with the instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

No problems, aside from those noted above, were found with any of the reported sample data.

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision
Sample MW03D (Lab. #: 97322010)			
Total Metals	(ug/l)		
Aluminum	P 18.533 B	156.00 B	156.2 B
Antimony	P 3.000 U	3.00 U	3 U
Arsenic	P 2.400 U	2.40 U	2.4 U
Barium	P 0.300 U	6.00 B	6.10 B
Beryllium	P -0.100 B	0.10 U	0.10 U
Cadmium	P 0.300 U	0.30 U	0.30 U
Calcium	P 7.800 B	9,040.00	9,041.00
Chromium	P -1.067 B	0.40 U	0.40 U
Cobalt	P 1.100 U	1.10 U	1.10 U
Copper	P 0.700 U	0.70 U	0.70 U
Iron	P 1.833 B	191.00	191.40
Lead	P 1.000 U	1.00 U	1.00 U
Magnesium	P 8.100 U	4,000.00 B	3,998.00 B
Manganese	P 0.300 U	52.80	52.80
Mercury	CV 0.100 U	0.10 U	0.10 U
Nickel	P 1.300 U	1.30 U	1.30 U
Potassium	P 8.400 U	753.00 B	753.30 B
Selenium	P 2.800 U	2.80 U	2.80 U
Silver	P 0.900 U	0.90 U	0.90 U
Sodium	P 40.633 B	17,600.00	17,650.00
Thallium	P 2.600 U	2.60 U	2.60 U
Vanadium	P 1.200 U	1.20 U	1.20 U
Zinc	P 7.033 B	18.90 B	19.00 B
Boron	P 21.300 B	117.00	116.70
Cyanide	CA 10.000 U	10.00 U	10.00 U
Sample MW03I (Lab. #: 9732011)			
Total Metals	(ug/l)		
Aluminum	P 18.533 B	162.00 B	161.80 B
Antimony	P 3.000 U	3.00 U	3.00 U
Arsenic	P 2.400 U	2.40 U	2.40 U
Barium	P 0.300 U	14.80 B	14.70 B
Beryllium	P -0.100 B	0.10 U	0.10 U
Cadmium	P 0.300 U	0.30 U	0.30 U
Calcium	P 7.800 B	10,600.00	10,560.00
Chromium	P -1.067 B	0.40 U	0.40 U
Cobalt	P 1.100 U	1.10 U	1.10 U
Copper	P 0.700 U	2.40 B	2.40 B
Iron	P 1.833 B	462.00	462.20
Lead	P 1.000 U	1.40 B	1.44 B
Magnesium	P 8.100 U	5,720.00	5,716.00
Manganese	P 0.300 U	113.00	113.10
Mercury	CV 0.100 U	0.10 U	0.10 U
Nickel	P 1.300 U	1.30 U	1.30 U
Potassium	P 8.400 U	1,200.00 B	1,201.00 B
Selenium	P 2.800 U	2.80 U	2.80 U
Silver	P 0.900 U	0.90 U	0.90 U
Sodium	P 40.633 B	10,300.00	10,300.00
Thallium	P 2.600 U	2.60 U	2.60 U
Vanadium	P 1.200 U	1.20 U	1.20 U
Zinc	P 7.033 B	65.50	65.50
Boron	P 21.300 B	83.70 B	83.70 B
Cyanide	CA 10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method	Blank	Lab.	QA
		Conc.	Reported	Validation
		(PPB)	Conc.	Reported
			(PPB)	Conc.
				Decision
Sample MW03S (Lab. #: 9732012)				
Total Metals	(ug/l)			
Aluminum	P	18.533 B	1,080.00	1,082.00
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	3.20 B	3.19 B
Barium	P	0.300 U	136.00 B	136.10 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	50,800.00	50,790.00
Chromium	P	-1.067 B	3.10 B	3.10 B
Cobalt	P	1.100 U	1.10 B	1.10 B
Copper	P	0.700 U	3.30 B	3.30 B
Iron	P	1.833 B	12,700.00	12,690.00
Lead	P	1.000 U	1.40 B	1.38 B
Magnesium	P	8.100 U	7,970.00	7,969.00
Manganese	P	0.300 U	7,270.00	7,267.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	2.60 B	2.70 B
Potassium	P	8.400 U	7,870.00	7,868.00
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	40,400.00	40,400.00
Thallium	P	2.600 U	2.60 U	2.60 U
Vanadium	P	1.200 U	3.70 B	3.70 B
Zinc	P	7.033 B	34.00	34.00
Boron	P	21.300 B	130.00	130.10
Cyanide	CA	10.000 U	10.00 U	10.00 U

Sample MW10D (Lab. #: 9732013)

Total Metals	(ug/l)			
Aluminum	P	18.533 B	134.00 B	134.50 B
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	206.00	205.80
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.83 B	0.90 B
Calcium	P	7.800 B	31,000.00	30,990.00
Chromium	P	-1.067 B	4.30 B	4.20 B
Cobalt	P	1.100 U	10.00 B	10.00 B
Copper	P	0.700 U	0.70 U	0.70 U
Iron	P	1.833 B	10,300.00	10,290.00
Lead	P	1.000 U	3.20	3.17
Magnesium	P	8.100 U	11,700.00	11,740.00
Manganese	P	0.300 U	36,100.00	36,145.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	15.10 B	15.10 B
Potassium	P	8.400 U	5,370.00	5,373.00
Selenium	P	2.800 U	3.40 B	3.40 B
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	628,000.00	627,500.00
Thallium	P	2.600 U	5.10 B	5.15 B
Vanadium	P	1.200 U	1.20 U	1.20 U
Zinc	P	7.033 B	124.00	124.40
Boron	P	21.300 B	63.10 B	63.10 B
Cyanide	CA	10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method	Blank	Lab.	QA
		Conc.	Reported	Validation
		Conc.	Conc.	Reported
		(PPB)	(PPB)	Conc.
				Decision
Sample MW10I (Lab. #: 9732014)				
Total Metals	(ug/l)			
Aluminum	P	18.533 B	54.90 B	54.90 B
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	38.60 B	38.60 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 B	0.30 B
Calcium	P	7.800 B	5,220.00	5,221.00
Chromium	P	-1.067 B	0.40 U	0.40 U
Cobalt	P	1.100 U	1.70 B	1.70 B
Copper	P	0.700 U	0.70 U	0.70 U
Iron	P	1.833 B	95.40 B	95.40 B
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	1,540.00 B	1,535.00 B
Manganese	P	0.300 U	2,940.00	2,943.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	1.80 B	1.80 B
Potassium	P	8.400 U	2,780.00 B	2,779.00 B
Selenium	P	2.800 U	2.80 U	2.90 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	137,000.00	136,900.00
Thallium	P	2.600 U	2.90 B	2.92 B
Vanadium	P	1.200 U	1.20 U	1.20 U
Zinc	P	7.033 B	22.50	22.50
Boron	P	21.300 B	117.00	116.60
Cyanide	CA	10.000 U	10.00 U	10.00 U

Sample MW10S (Lab. #: 9732015)

Total Metals	(ug/l)			
Aluminum	P	18.533 B	553.00	553.00
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	18.70 B	18.70 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	33,000.00	33,020.00
Chromium	P	-1.067 B	0.40 U	0.40 U
Cobalt	P	1.100 U	1.10 U	1.10 U
Copper	P	0.700 U	2.50 B	2.40 B
Iron	P	1.833 B	670.00	670.00
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	3,940.00 B	3,936.00 B
Manganese	P	0.300 U	1,600.00	1,597.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	1.30 U	1.30 U
Potassium	P	8.400 U	8,010.00	8,008.00
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	98,100.00	98,140.00
Thallium	P	2.600 U	2.80 B	2.78 B
Vanadium	P	1.200 U	1.20 U	1.20 U
Zinc	P	7.033 B	173.00 B	173.00 B
Boron	P	21.300 B	110.00	109.80
Cyanide	CA	10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method		Lab.	QA
	Blank	Conc.	Reported	Validation
		Conc.	Conc.	Reported
		(PPB)	(PPB)	Conc.
				Decision
Sample MW11D (Lab. #: 9732129)				
Total Metals	(ug/l)			
Aluminum	P	18.533 B	473.00	473.10
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	27.80 B	27.80 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	7,300.00	7,296.00
Chromium	P	-1.067 B	0.43 B	0.40 B
Cobalt	P	1.100 U	1.10 U	1.10 U
Copper	P	0.700 U	0.70 U	0.70 U
Iron	P	1.833 B	153.00	153.00
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	1,330.00 B	1,330.00 B
Manganese	P	0.300 U	74.60	74.60
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	2.10 B	2.10 B
Potassium	P	8.400 U	10,000.00	10,010.00
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	8,050.00	8,052.00
Thallium	P	2.600 U	2.70 B	2.73 B
Vanadium	P	1.200 U	1.40 B	1.40 B
Zinc	P	7.033 B	19.00 B	19.00 B
Boron	P	21.300 B	19.30 B	19.30 B
Cyanide	CA	10.000 U	10.00 U	10.00 U

Sample MW11I (Lab. #: 9732130)

Total Metals	(ug/l)			
Aluminum	P	18.533 B	113.00 B	113.20 B
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	22.20 B	22.20 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	10,200.00	10,240.00
Chromium	P	-1.067 B	0.40 U	0.40 U
Cobalt	P	1.100 U	4.70 B	4.70 B
Copper	P	0.700 U	3.10 B	3.10 B
Iron	P	1.833 B	191.00	191.20
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	6,510.00	6,507.00
Manganese	P	0.300 U	245.00	244.70
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	4.30 B	4.30 B
Potassium	P	8.400 U	3,870.00 B	3,872.00 B
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	11,100.00	11,090.00
Thallium	P	2.600 U	2.60 U	2.60 U
Vanadium	P	1.200 U	1.20 U	1.20 U
Zinc	P	7.033 B	100.00	100.40
Boron	P	21.300 B	59.20 B	59.20 B
Cyanide	CA	10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method		Lab.	QA
	Blank		Reported	Validation
	Conc.		Conc.	Reported
	(PPB)		(PPB)	Conc.
Decision				
Sample MW11S (Lab. #: 9732131)				
Total Metals	(ug/l)			
Aluminum	P	18.533 B	703.00	702.80
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	30.50 B	30.50 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	39,100.00	39,060.00
Chromium	P	-1.067 B	0.73 B	0.70 B
Cobalt	P	1.100 U	2.10 B	2.10 B
Copper	P	0.700 U	3.20 B	3.20 B
Iron	P	1.833 B	739.00	739.20
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	4,000.00 B	3,999.00 B
Manganese	P	0.300 U	1,820.00	1,824.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	2.60 B	2.60 B
Potassium	P	8.400 U	8,620.00	8,622.00
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	43,700.00	43,700.00
Thallium	P	2.600 U	3.20 B	3.23 B
Vanadium	P	1.200 U	1.80 B	1.90 B
Zinc	P	7.033 B	12.70 B	12.70 B
Boron	P	21.300 B	450.00	449.70
Cyanide	CA	10.000 U	10.00 U	10.00 U

Sample MW12D (Lab. #: 9732132)

Total Metals	(ug/l)			
Aluminum	P	18.533 B	288.00	287.80
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	6.50 B	6.50 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	8,460.00	8,457.00
Chromium	P	-1.067 B	0.87 B	0.80 B
Cobalt	P	1.100 U	1.10 U	1.10 U
Copper	P	0.700 U	2.40 B	2.40 B
Iron	P	1.833 B	312.00	312.00
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	2,330.00 B	2,328.00 B
Manganese	P	0.300 U	82.50	82.50
Mercury	CV	0.100 U	0.10 U	1.00 U
Nickel	P	1.300 U	1.30 U	1.30 U
Potassium	P	8.400 U	837.00 B	837.30 B
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	8,400.00	8,398.00
Thallium	P	2.600 U	2.60 U	2.60 U
Vanadium	P	1.200 U	1.20 B	1.20 B
Zinc	P	7.033 B	311.00	311.20
Boron	P	21.300 B	27.90 B	27.90 B
Cyanide	CA	10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision
Sample MW12I (Lab. #: 9732133)			
Total Metals	(ug/l)		
Aluminum	P 18.533 B	281.00	280.70
Antimony	P 3.000 U	3.00 U	3.00 U
Arsenic	P 2.400 U	2.40 U	2.40 U
Barium	P 0.300 U	25.10 B	25.10 B
Beryllium	P -0.100 B	0.10 U	0.10 U
Cadmium	P 0.300 U	0.30 U	0.30 U
Calcium	P 7.800 B	13,000.00	12,980.00
Chromium	P -1.067 B	0.40 U	0.40 U
Cobalt	P 1.100 U	1.10 U	1.10 U
Copper	P 0.700 U	1.00 B	1.00 B
Iron	P 1.833 B	213.00	213.00
Lead	P 1.000 U	1.00 U	1.00 U
Magnesium	P 8.100 U	4,930.00 B	4,933.00 B
Manganese	P 0.300 U	1,290.00	1,291.00
Mercury	CV 0.100 U	0.10 U	0.10 U
Nickel	P 1.300 U	1.50 B	1.50 B
Potassium	P 8.400 U	1,520.00 B	1,518.00 B
Selenium	P 2.800 U	2.80 U	2.80 U
Silver	P 0.900 U	0.90 U	0.90 U
Sodium	P 40.633 B	10,800.00	10,770.00
Thallium	P 2.600 U	2.60 U	1.60 U
Vanadium	P 1.200 U	1.20 U	1.20 U
Zinc	P 7.033 B	39.20	39.20
Boron	P 21.300 B	103.00	103.20
Cyanide	CA 10.000 U	10.00 U	10.00 U

Sample MW12S (Lab. #: 9732134)

Total Metals	(ug/l)		
Aluminum	P 18.533 B	275.00	274.80
Antimony	P 3.000 U	3.00 U	3.00 U
Arsenic	P 2.400 U	2.40 U	2.40 U
Barium	P 0.300 U	24.70 B	24.70 B
Beryllium	P -0.100 B	0.10 U	0.10 U
Cadmium	P 0.300 U	0.30 U	0.30 U
Calcium	P 7.800 B	32,500.00	32,510.00
Chromium	P -1.067 B	8.30 B	8.40 B
Cobalt	P 1.100 U	1.10 U	1.10 U
Copper	P 0.700 U	0.70 U	0.70 U
Iron	P 1.833 B	326.00	325.90
Lead	P 1.000 U	1.00 U	1.00 U
Magnesium	P 8.100 U	1,730.00 B	1,727.00 B
Manganese	P 0.300 U	29.20	29.20
Mercury	CV 0.100 U	0.10 U	0.10 U
Nickel	P 1.300 U	1.30 U	1.30 U
Potassium	P 8.400 U	14,700.00	14,740.00
Selenium	P 2.800 U	2.80 U	2.80 U
Silver	P 0.900 U	0.90 U	0.90 U
Sodium	P 40.633 B	17,800.00	17,830.00
Thallium	P 2.600 U	2.60 U	2.60 U
Vanadium	P 1.200 U	1.20 U	1.20 U
Zinc	P 7.033 B	15.00 B	115.00 B
Boron	P 21.300 B	80.10 B	80.10 B
Cyanide	CA 10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method		Lab.	QA
	Blank	Conc.	Reported	Validation
		Conc.	Conc.	Reported
		(PPB)	(PPB)	Conc.
				Decision
Sample MW13D (Lab. #: 9732324)				
Total Metals	(ug/l)			
Aluminum	P	18.533 B	190.00 B	190.00 B
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	104.00 B	104.40 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	58,600.00	58,650.00
Chromium	P	-1.067 B	4.70 B	4.70 B
Cobalt	P	1.100 U	9.80 B	9.80 B
Copper	P	0.700 U	0.97 B	1.00 B
Iron	P	1.833 B	524.00	524.00
Lead	P	1.000 U	1.70 B	1.65 B
Magnesium	P	8.100 U	8,920.00	8,923.00
Manganese	P	0.300 U	31,000.00	31,020.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	6.60 B	6.70 B
Potassium	P	8.400 U	13,900.00	13,930.00
Selenium	P	2.800 U	3.80 B	3.76 B
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	16,100.00	16,140.00
Thallium	P	2.600 U	2.60 U	2.60 U
Vanadium	P	1.200 U	1.20 U	1.20 U
Zinc	P	7.033 B	65.10	65.10
Boron	P	21.300 B	135.00	135.00
Cyanide	CA	10.000 U	10.00 U	10.00 U

Sample MW13I (Lab. #: 9732325)

Total Metals	(ug/l)			
Aluminum	P	18.533 B	1,160.00	1,156.00
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	262.00	262.40
Beryllium	P	-0.100 B	0.80 B	0.80 B
Cadmium	P	0.300 U	0.33 B	0.30 B
Calcium	P	7.800 B	32,900.00	32,890.00
Chromium	P	-1.067 B	0.60 B	0.60 B
Cobalt	P	1.100 U	30.10 B	30.10 B
Copper	P	0.700 U	3.20 B	3.20 B
Iron	P	1.833 B	27,700.00	27,720.00
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	3,580.00 B	3,580.00 B
Manganese	P	0.300 U	1,610.00	1,907.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	2.70 B	2.70 B
Potassium	P	8.400 U	7,910.00	7,912.00
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	26,900.00	26,880.00
Thallium	P	2.600 U	4.30 B	4.34 B
Vanadium	P	1.200 U	1.50 B	1.50 B
Zinc	P	7.033 B	45.90	45.90
Boron	P	21.300 B	93.60 B	93.60 B
Cyanide	CA	10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method	Blank	Lab.	QA
		Conc.	Reported	Validation
		(PPB)	Conc.	Reported
			(PPB)	Conc.
				Decision
Sample MW13S (Lab. #: 9732328)				
Total Metals	(ug/l)			
Aluminum	P	18.533 B	544.00	543.60
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	32.90 B	32.90 B
Beryllium	P	-0.100 B	0.10 B	0.10 B
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	7,570.00	7,572.00
Chromium	P	-1.067 B	1.30 B	1.30 B
Cobalt	P	1.100 U	1.10 U	1.10 U
Copper	P	0.700 U	3.60 B	3.60 B
Iron	P	1.833 B	683.00	683.40
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	1,890.00 B	1,887.00 B
Manganese	P	0.300 U	157.00	157.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	3.00 B	2.90 B
Potassium	P	8.400 U	1,930.00 B	1,928.00 B
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	8,230.00	9,235.00
Thallium	P	2.600 U	3.50 B	3.45 B
Vanadium	P	1.200 U	1.20 B	1.20 B
Zinc	P	7.033 B	13.90 B	13.90 B
Boron	P	21.300 B	36.00 B	36.00 B
Cyanide	CA	10.000 U	10.00 U	10.00 U

Sample MW14D (Lab. #: 9732327)

Total Metals	(ug/l)			
Aluminum	P	18.533 B	37.00 B	37.00 B
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	172.00 B	171.90 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	52,600.00	52,620.00
Chromium	P	-1.067 B	0.40 U	0.40 U
Cobalt	P	1.100 U	9.50 B	9.50 B
Copper	P	0.700 U	0.70 U	0.70 U
Iron	P	1.833 B	24,500.00	24,490.00
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	11,900.00	11,910.00
Manganese	P	0.300 U	6,290.00	6,287.00
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	3.60 B	3.60 B
Potassium	P	8.400 U	31,100.00	31,130.00
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	19,100.00	19,100.00
Thallium	P	2.600 U	2.60 B	2.65 B
Vanadium	P	1.200 U	1.20 U	1.20 U
Zinc	P	7.033 B	42.40	42.40
Boron	P	21.300 B	287.00	286.90
Cyanide	CA	10.000 U	10.00 U	10.00 U

Data Validation Summary Table
For the Sonia Road Landfill

TAL Inorganic Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method		Lab.	QA
	Blank	Conc.	Reported	Validation
		Conc.	Conc.	Reported
		(PPB)	(PPB)	Conc.
				Decision
Sample MW14I (Lab. #: 9732328)				
Total Metals	(ug/l)			
Aluminum	P	18.533 B	83.10 B	83.10 B
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	11.70	11.72
Barium	P	0.300 U	118.00 B	117.70 B
Beryllium	P	-0.100 B	0.10 U	0.10 U
Cadmium	P	0.300 U	0.30 U	0.30 U
Calcium	P	7.800 B	68,600.00	68,570.00
Chromium	P	-1.067 B	0.40 U	0.40 U
Cobalt	P	1.100 U	6.20 B	6.20 B
Copper	P	0.700 U	0.93 B	1.00 B
Iron	P	1.833 B	54,200.00	54,240.00
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	10,400.00	10,410.00
Manganese	P	0.300 U	461.00	460.50
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	1.30 U	1.30 U
Potassium	P	8.400 U	16,200.00	16,250.00
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	14,200.00	14,190.00
Thallium	P	2.600 U	3.40 B	3.44 B
Vanadium	P	1.200 U	1.20 U	1.20 U
Zinc	P	7.033 B	50.70	50.70
Boron	P	21.300 B	219.00	218.80
Cyanide	CA	10.000 U	10.00 U	10.00 U

Sample MW14S (Lab. #: 9732329)

Total Metals		(ug/l)		
Aluminum	P	18.533 B	507.00	506.50
Antimony	P	3.000 U	3.00 U	3.00 U
Arsenic	P	2.400 U	2.40 U	2.40 U
Barium	P	0.300 U	24.60 B	24.60 B
Beryllium	P	-0.100 B	0.10 B	0.10 B
Cadmium	P	0.300 U	0.43 B	0.40 B
Calcium	P	7.800 B	8,850.00	8,848.00
Chromium	P	-1.067 B	0.40 U	0.40 U
Cobalt	P	1.100 U	1.10 U	1.10 U
Copper	P	0.700 U	3.00 B	3.10 B
Iron	P	1.833 B	575.00	484.10
Lead	P	1.000 U	1.00 U	1.00 U
Magnesium	P	8.100 U	1,960.00 B	1,956.00 B
Manganese	P	0.300 U	71.30	71.30
Mercury	CV	0.100 U	0.10 U	0.10 U
Nickel	P	1.300 U	1.40 B	1.40 B
Potassium	P	8.400 U	3,230.00 B	3,235.00 B
Selenium	P	2.800 U	2.80 U	2.80 U
Silver	P	0.900 U	0.90 U	0.90 U
Sodium	P	40.633 B	9,970.00	9,968.00
Thallium	P	2.600 U	2.60 U	2.60 U
Vanadium	P	1.200 U	1.20 B	1.20 B
Zinc	P	7.033 B	116.00	115.70
Boron	P	21.300 B	26.40 B	26.40 B
Cyanide	CA	10.000 U	10.00 U	10.00 U

**SUMMARY OF THE ANALYTICAL DATA VALIDATION
For the Sonia Road Landfill**

Wet Chemistry Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Laboratory Reference Numbers:

Samples Received 10/31

MW-03D	9732010
MW-03I	9732011
MW-03S	9732012
MW-10D	9732013
MW-10I	9732014
MW-10S	9732015

MW-11D	9732129
MW-11I	9732130
MW-11S	9732131
MW-12D	9732132
MW-12I	9732133
MW-12S	9732134

Samples Received 11/04

MW-13D	9732324
MW-13I	9732325
MW-13IMS	9732325MS
MW-13IMSD	9732325MSD
MW-13S	9732326
MW-14D	9732327
MW-14I	9732328
MW-14S	9732329

Water samples were received for wet chemistry analyses by NYS DEC ASP protocols.
A complete analytical validation was performed based upon the following parameters:

- * - Data Completeness
- * - Holding Times
- * - Calibration Verification
- * - Laboratory Control Sample
- * - Laboratory Blanks
- Field Blanks
- * - Preparation Blanks
- * - Matrix Spike
- * - Duplicate Analyses
- * - Detection Limit Results
- * - Linear Range
- * - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

The concentration of total dissolved solids in sample MW-03S was incorrectly calculated in the original analytical report. The original concentration of 123 ug/l was corrected to 246 ug/l in the laboratory's 12/31 fax.

No other problems were found which would affect the end use of the data.



Nancy J. Potak
December 28, 1997

Holding Times

All samples were analyzed within the required holding times.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Several analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Field Blank

A field blank was not submitted with this sample delivery group.

Matrix Spike Recovery

Sample MW-13I (Lab. #: 9732325) of this sample delivery group was used for the matrix spike for the full inorganic TCL analyte. All recoveries were within the acceptable quality assurance limits (75% - 125%) with the following exceptions:

Duplicate Analysis

Sample MW-13I (Lab. #: 9732325) of this sample delivery group was also used for the matrix duplicate for the full inorganic TCL analyte list. All recoveries which could be calculated were within the acceptable limits (+/- 20%).

Laboratory Control Sample

No problems were detected with the recoveries of the water LCS standards where they were run as part of the wet chemistry method.

Method Detection Limit

No problems were found with the instrument detection limits.

Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Sample Results

Sample MW-03S (Lab. #: 9732012)

The concentration of total dissolved solids in this sample was incorrectly calculated in the original analytical report. The original concentration of 123 ug/l was corrected to 246 ug/l in the laboratory's 12/31 fax.

No other problems were found with any of the reported sample data.

Data Validation Summary Table
For the Sonia Road Landfill

Wet Chemistry Analyses

Water Samples Received: October 31st through November 4th, 1997

Sample Delivery Group: IRS008

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
Sample MW03D (Lab. #: 97322010)					
BOD	2.00 U	2.00 U	2.00 U		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	22.00	22.00		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.08	0.08		
Nitrate (as N)	0.10 U	3.60	3.65		
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U		
Sulfate	5.00 U	22.80	22.78		
Total Alkalinity	1.00 U	30.70	30.70		
Total Dissolved Solids	10.00 U	107.00	107.00		
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U		
Total Organic Carbon	0.50 U	1.30	1.25		
Total Hardness	5.00 U	46.00	46.00		
Sample MW03I (Lab. #: 9732011)					
BOD	2.00 U	4.00	4.00		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	15.00	15.00		
COD	15.00 U	15.00 U	15.00 U		
Color	5.00 U	5.00 U	5.00 U		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	0.24	0.24		
Nitrate (as N)	0.10 U	0.88	0.88		
Total Phenols (ug/l)	1.00 U	2.00	2.00		
Sulfate	5.00 U	20.40	20.38		
Total Alkalinity	1.00 U	36.20	36.20		
Total Dissolved Solids	10.00 U	86.00	86.00		
Total Kjeldahl Nitrogen	0.20 U	0.45	0.45		
Total Organic Carbon	0.50 U	2.10	2.13		
Total Hardness	5.00 U	52.00	52.00		
Sample MW03S (Lab. #: 9732012)					
BOD	2.00 U	11.00	11.00		
Bromide	0.50 U	0.50 U	0.50 U		
Chloride	2.00 U	75.30	75.30		
COD	15.00 U	37.00	37.00		
Color	5.00 U	70.00	70.00		
Hexavalent Chromium	0.10 U	0.02 U	0.02 U		
Ammonia (as N)	0.05 U	2.00	2.00		
Nitrate (as N)	0.10 U	0.10 U	0.10 U		
Total Phenols (ug/l)	1.00 U	1.80	1.80		
Sulfate	5.00 U	5.00 U	5.00 U		
Total Alkalinity	1.00 U	187.00	187.00		
Total Dissolved Solids	10.00 U	123.00	248.00	See Text	
Total Kjeldahl Nitrogen	0.20 U	3.10	3.10		
Total Organic Carbon	0.50 U	7.70	7.73		
Total Hardness	5.00 U	190.00	190.00		
Sample MW10D (Lab. #: 9732013)					
BOD	2.00 U	3.00	3.00		
Bromide	0.50 U	0.50 U	0.50 U		

Chloride	2.00 U	1,230.00	1,230.60
COD	15.00 U	82.00	82.00
Color	5.00 U	30.00	30.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.55	0.55
Nitrate (as N)	0.10 U	0.14	0.14
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U
Sulfate	5.00 U	101.00	100.90
Total Alkalinity	1.00 U	13.90	13.90
Total Dissolved Solids	10.00 U	1,950.00	1,954.00
Total Kjeldahl Nitrogen	0.20 U	0.81	0.81
Total Organic Carbon	0.50 U	1.90	1.91
Total Hardness	5.00 U	220.00	220.00

Sample MW10I (Lab. #: 9732014)

BOD	2.00 U	2.00	2.00
Bromide	0.50 U	0.60	0.60
Chloride	2.00 U	183.00	182.90
COD	15.00 U	16.00	16.00
Color	5.00 U	5.00 U	5.00 U
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	1.30	1.30
Nitrate (as N)	0.10 U	0.70	0.70
Total Phenols (ug/l)	1.00 U	1.30	1.30
Sulfate	5.00 U	45.40	45.37
Total Alkalinity	1.00 U	36.40	36.40
Total Dissolved Solids	10.00 U	400.00	400.00
Total Kjeldahl Nitrogen	0.20 U	1.90	1.90
Total Organic Carbon	0.50 U	6.30	6.28
Total Hardness	5.00 U	24.00	24.00

Sample MW10S (Lab. #: 9732015)

BOD	2.00 U	2.00	2.00
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	126.00	125.60
COD	15.00 U	25.00	25.00
Color	5.00 U	10.00	10.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.50	0.50
Nitrate (as N)	0.10 U	0.10 U	0.10 U
Total Phenols (ug/l)	1.00 U	1.50	1.50
Sulfate	5.00 U	69.60	69.62
Total Alkalinity	1.00 U	93.00	93.00
Total Dissolved Solids	10.00 U	361.00	361.00
Total Kjeldahl Nitrogen	0.20 U	0.53	0.53
Total Organic Carbon	0.50 U	6.40	6.38
Total Hardness	5.00 U	104.00	104.00

Sample MW11D (Lab. #: 9732129)

BOD	2.00 U	4.00	4.00
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	13.30	13.30
COD	15.00 U	40.00	40.00
Color	5.00 U	80.00	80.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.50	0.50
Nitrate (as N)	0.10 U	1.50	1.49
Total Phenols (ug/l)	1.00 U	6.30	6.30
Sulfate	5.00 U	31.30	31.31
Total Alkalinity	1.00 U	36.80	36.80
Total Dissolved Solids	10.00 U	124.00	124.00
Total Kjeldahl Nitrogen	0.20 U	0.58	0.58
Total Organic Carbon	0.50 U	5.60	5.60
Total Hardness	5.00 U	26.00	26.00

Sample MW11I (Lab. #: 9732130)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	40.40	40.40
COD	15.00 U	15.00 U	15.00 U
Color	5.00 U	5.00 U	5.00 U
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.99	0.99
Nitrate (as N)	0.10 U	0.13	0.13
Total Phenols (ug/l)	1.00 U	1.30	1.30
Sulfate	5.00 U	14.90	14.86
Total Alkalinity	1.00 U	27.60	27.60
Total Dissolved Solids	10.00 U	96.00	95.00
Total Kjeldahl Nitrogen	0.20 U	1.50	1.50
Total Organic Carbon	0.50 U	1.60	1.57
Total Hardness	5.00 U	54.00	54.00

Sample MW11S (Lab. #: 9732131)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	65.10	65.11
COD	15.00 U	22.00	22.00
Color	5.00 U	100.00	100.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	1.00	1.00
Nitrate (as N)	0.10 U	0.28	0.28
Total Phenols (ug/l)	1.00 U	1.80	1.80
Sulfate	5.00 U	42.10	42.08
Total Alkalinity	1.00 U	127.00	127.20
Total Dissolved Solids	10.00 U	261.00	261.00
Total Kjeldahl Nitrogen	0.20 U	1.20	1.20
Total Organic Carbon	0.50 U	3.70	3.70
Total Hardness	5.00 U	120.00	120.00

Sample MW12D (Lab. #: 9732132)

BOD	2.00 U	3.00	3.00
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	11.70	11.70
COD	15.00 U	15.00 U	15.00 U
Color	5.00 U	5.00 U	5.00 U
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.05 U	0.05 U
Nitrate (as N)	0.10 U	0.32	0.32
Total Phenols (ug/l)	1.00 U	1.80	1.80
Sulfate	5.00 U	19.50	19.54
Total Alkalinity	1.00 U	19.30	19.30
Total Dissolved Solids	10.00 U	45.00	45.00
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U
Total Organic Carbon	0.50 U	1.00 U	1.00 U
Total Hardness	5.00 U	34.00	34.00

Sample MW12I (Lab. #: 9732133)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	17.50	17.50
COD	15.00 U	16.00	16.00
Color	5.00 U	5.00 U	5.00 U
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.51	0.51
Nitrate (as N)	0.10 U	4.70	4.69
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U
Sulfate	5.00 U	43.10	43.10
Total Alkalinity	1.00 U	10.50	10.50
Total Dissolved Solids	10.00 U	106.00	106.00
Total Kjeldahl Nitrogen	0.20 U	0.46	0.46

Total Organic Carbon	0.50 U	3.60	3.59
Total Hardness	5.00 U	54.00	54.00

Sample MW12S (Lab. #: 9732134)

BOD	2.00 U	3.00	3.00
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	21.00	21.00
COD	15.00 U	16.00	16.00
Color	5.00 U	5.00 U	5.00 U
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.11	0.11
Nitrate (as N)	0.10 U	0.75	1.08
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U
Sulfate	5.00 U	32.80	32.76
Total Alkalinity	1.00 U	102.00	102.00
Total Dissolved Solids	10.00 U	170.00	170.00
Total Kjeldahl Nitrogen	0.20 U	0.21	0.21
Total Organic Carbon	0.50 U	2.30	2.27
Total Hardness	5.00 U	90.00	90.00

Sample MW13D (Lab. #: 9732324)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	34.80	34.80
COD	15.00 U	37.00	37.00
Color	5.00 U	5.00 U	5.00 U
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	5.00	5.02
Nitrate (as N)	0.10 U	0.29	0.29
Total Phenols (ug/l)	1.00 U	2.50	2.50
Sulfate	5.00 U	21.40	21.42
Total Alkalinity	1.00 U	242.00	242.40
Total Dissolved Solids	10.00 U	306.00	306.00
Total Kjeldahl Nitrogen	0.20 U	5.50	5.50
Total Organic Carbon	0.50 U	3.90	3.66
Total Hardness	5.00 U	400.00	400.00

Sample MW13I (Lab. #: 9732325)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.60	0.60
Chloride	2.00 U	33.20	33.20
COD	15.00 U	19.00	19.00
Color	5.00 U	20.00	20.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	2.00	2.00
Nitrate (as N)	0.10 U	0.10 U	0.10 U
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U
Sulfate	5.00 U	33.40	33.44
Total Alkalinity	1.00 U	116.00	116.00
Total Dissolved Solids	10.00 U	207.00	207.00
Total Kjeldahl Nitrogen	0.20 U	2.90	2.90
Total Organic Carbon	0.50 U	3.40	3.43
Total Hardness	5.00 U	110.00	110.00

Sample MW13S (Lab. #: 9732326)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	13.70	13.70
COD	15.00 U	15.00 U	15.00 U
Color	5.00 U	30.00	30.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.12	0.12
Nitrate (as N)	0.10 U	0.10 U	0.10 U
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U

Sulfate	5.00 U	19.30	19.25
Total Alkalinity	1.00 U	2.00	3.20
Total Dissolved Solids	10.00 U	67.00	67.00
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U
Total Organic Carbon	0.50 U	1.00 U	1.00 U
Total Hardness	5.00 U	26.00	26.00

Sample MW14D (Lab. #: 9732327)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	45.40	45.40
COD	15.00 U	31.00	31.00
Color	5.00 U	20.00	20.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	7.70	7.71
Nitrate (as N)	0.10 U	0.89	0.89
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U
Sulfate	5.00 U	7.40	7.41
Total Alkalinity	1.00 U	274.00	273.60
Total Dissolved Solids	10.00 U	280.00	280.00
Total Kjeldahl Nitrogen	0.20 U	10.80	10.80
Total Organic Carbon	0.50 U	6.30	6.32
Total Hardness	5.00 U	200.00	200.00

Sample MW14I (Lab. #: 9732328)

BOD	2.00 U	18.00	18.00
Bromide	0.50 U	0.60 U	0.60 U
Chloride	2.00 U	24.80	24.80
COD	15.00 U	28.00	28.00
Color	5.00 U	20.00	20.00
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	7.20	7.24
Nitrate (as N)	0.10 U	0.10 U	0.10 U
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U
Sulfate	5.00 U	5.00 U	5.00 U
Total Alkalinity	1.00 U	225.00	224.80
Total Dissolved Solids	10.00 U	240.00	240.00
Total Kjeldahl Nitrogen	0.20 U	6.40	6.40
Total Organic Carbon	0.50 U	5.80	5.75
Total Hardness	5.00 U	200.00	200.00

Sample MW14S (Lab. #: 9732329)

BOD	2.00 U	2.00 U	2.00 U
Bromide	0.50 U	0.50 U	0.50 U
Chloride	2.00 U	15.70	15.70
COD	15.00 U	15.00 U	15.00 U
Color	5.00 U	5.00 U	5.00 U
Hexavalent Chromium	0.10 U	0.02 U	0.02 U
Ammonia (as N)	0.05 U	0.05 U	0.05 U
Nitrate (as N)	0.10 U	4.50	4.52
Total Phenols (ug/l)	1.00 U	1.00 U	1.00 U
Sulfate	5.00 U	12.20	12.17
Total Alkalinity	1.00 U	10.80	10.80
Total Dissolved Solids	10.00 U	93.00	93.00
Total Kjeldahl Nitrogen	0.20 U	0.20 U	0.20 U
Total Organic Carbon	0.50 U	1.00 U	1.00 U
Total Hardness	5.00 U	36.00	36.00