N00158.AR.000222
NAS WILLOW GROVE
5090.3a

TETRA TECH NUS

PHIL-19655

TO:	**RUSS TURNER**	**DATE:**	**NOVEMBER 23, 2005**
FROM:	**MEGAN N. RITCHIE**	**COPIES:**	**FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOCS**
NAS JRB WILLOW GROVE, PENNSYLVANIA
SDG NO. TT101905

SAMPLES: **9/Solid/**

05SB51-0405	05SB54-1718	05SB56-1011
05SB51-1819	05SB55-0001	05SB56-1920
05SB54-0001	05SB55-2223	DUP-02

3/Aqueous/

FB10180501	RB10180501	TB10180501

OVERVIEW

The sample set for NAS JRB Willow Grove Sites 1 and 5 – Willow Grove, PA, SDG TT101905 consists of nine solid environmental samples (designated 05SB-, and DUP-) and three field quality control (QC) blanks (designated FB-, RB-, and TB-). One field duplicate pair (05SB51-0405 and DUP-02) was included in this sample set. Sample 05SB55-2223 was designated for matrix spike/matrix spike duplicate (MS/MSD) analyses. All samples were analyzed for target compound list (TCL) Volatile Organic Compounds (VOCs).

The samples were collected by Tetra Tech NUS on October 18, 2005 and analyzed by Northeast Laboratory Services of Waterville, Maine.

All analyses were conducted using EPA SW-846 Methods 8260B.

SUMMARY

All analytes were successfully analyzed in all samples. The findings offered in this report are based upon a general review of all available data including data completeness, holding times until analysis, GC/MS tuning and calibration data, laboratory and field quality control blank results, system monitoring compound recoveries, matrix spike/matrix spike duplicate results (MS/MSD), laboratory control spike/spike duplicate results (LCS/LCSD), internal standards performance, compound identification, and compound quantitation.

MAJOR PROBLEMS

- None.

MINOR PROBLEMS

- The following table summarizes the analytes detected as contaminants in the laboratory and field QC blanks at the maximum concentration indicated:

Compound	Maximum Concentration	Action Level
Acetone*	2.4 ug/Kg	24 ug/Kg
Methylene Chloride	6 ug/Kg	60 ug/Kg
Trichlorofluoromethane	0.8 ug/Kg	4 ug/Kg

*Indicates compound was detected in a field QC blank.

Samples affected: The soil action levels apply to all soil samples.

Adjustments were made for the samples aliquot size, percent moisture, and dilution factors. Results reported at concentrations within the action level are qualified (B) and are considered to be false positives (artifacts of blank contamination).

- The continuing calibration percent difference (%D) for chloroethane exceeded the QC criteria of 50%. The non-detected results for chloroethane in samples 05SB54-0001 and 05SB55-2223 were qualified as estimated (UJ).
- The continuing calibration percent difference (%D) for acetone exceeded the QC criteria of 25%. The positive result for acetone in sample 05SB54-0001 and was qualified as estimated (J).
- The system monitoring compound (SMC) percent recoveries for 1,2-dichloroethane-d4 exceeded the upper QC limit for samples 05SB54-0001 and 05SB55-2223. Sample 05SB54-0001 was reanalyzed with the same SMC exceedances. Sample 05SB55-2223 was reanalyzed with no SMC exceedances. For sample 05SB55-2223, most positive and non-detected results were reported by the data validator from the reanalysis because fewer QC problems occurred in this analysis. Only methyl acetate was reported from the initial analysis and qualified as estimated (J) due to SMC recoveries. For sample 05SB54-0001, both analyses had several QC problems, so reanalysis results were generally selected for reporting by the data validator. In this sample, all positive results were qualified estimated (J) for SMC recoveries.
- The internal standard area recoveries for chlorobenzene-d5 and 1,4-dichlorobenzene-d4 were below the lower limits of the QC criteria for samples 05SB54-0001 and 05SB55-2223. All internal standard area recoveries were lower than the lower limit in the reanalysis of sample 05SB54-0001. Sample 05SB55-2223 was reanalyzed with internal standard pentafluorobenzene area below the lower QC limit. The positive and non-detected results associated with the outlier internal standards were qualified as estimated (J/UJ) for the analyses selected for reporting, including compounds associated with the internal standard pentafluorobenzene in the reanalysis of 05SB55-2223 and all compounds in the reanalysis of 05SB54-0001.
- The field duplicate pair 05SB51-0405 and DUP-02 exhibited relative percent differences (RPDs) that exceeded QC criteria for methylcyclohexane, which resulted in qualification of these results as estimated (J).
- Positive results at concentrations less than the Reporting Limits (RLs) were qualified as estimated (J).

NOTES

For samples 05SB54-0001 and 05SB55-2223, the positive reanalysis results were reported by the data validator for all compounds except methyl acetate, which was reported from the initial analysis because the other analysis was non-detected for this compound.

The MS/MSD recoveries exceeded QC criteria for several compounds. No qualifications were made based on MS/MSD data alone.

Several LCS/LCSD recoveries and RPDs exceeded QC criteria. No qualifications were made based on LCS/LCSD data alone.

EXECUTIVE SUMMARY

Laboratory Performance: Methylene chloride and trichlorfluoromethane were detected in the laboratory blanks. Two compounds exceeded continuing calibration %D criteria. Several compounds exceeded LCS/LCSD QC criteria.

Other Factors Affecting Data Quality: Acetone was detected in three field QC blanks. Two samples exhibited system monitoring compounds that exceeded QC criteria. The same two samples exhibited internal standard areas below the lower QC limit. Field duplicate precision exceeded QC criteria. Several compounds exhibited MS/MSD recoveries that exceeded QC criteria.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Review", as amended for use within EPA Region 3 (9/94).

The text of this report has been formatted to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Functional Guidelines and the Quality Assurance Project Plan (QAPjP)."

Megan N. Ritchie
Megan N. Ritchie
Chemist

Russ Sloboda
Tetra Tech NUS, Inc.
Russell Sloboda
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

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NARRATIVE
NORTHEAST LABORATORY SERVICES
TETRA TECH NUS, INC.
NASJRB WILLOW GROVE, PA
SDG# TT101905

Sample Receipt

The following samples were received on October 19, 2005 with a hardcopy due date of November 9, 2005

NEL Sample Number	Sample Identification	Date Sampled	Parameters
AH12663	TB10180501	10/18/05	TCL VOC
AH12664	FB10180501	10/18/05	TCL VOC
AH12665	05SB51-0405	10/18/05	TCL VOC, % solids
AH12666	05SB51-1819	10/18/05	TCL VOC, % solids
AH12667	Dup-02	10/18/05	TCL VOC, % solids
AH12668	05SB56-1011	10/18/05	TCL VOC, % solids
AH12669	05SB56-1920	10/18/05	TCL VOC, % solids
AH12670	05SB55-0001	10/18/05	TCL VOC, % solids
AH12671	05SB55-2223 MS/MSD	10/18/05	TCL VOC, % solids
AH12672	RB10180501	10/18/05	TCL VOC
AH12673	05SB54-0001	10/18/05	TCL VOC, % solids
AH12674	05SB54-1718	10/18/05	TCL VOC, % solids

The samples were tracked through the Laboratory Information Management System (LIMS) for the analyses specified on the chain of custody form. The samples were assigned unique laboratory identification numbers and each test requested on the chain of custody record for that sample was assigned to the unique number for that sample only. Every record in the lab associated with these reports will contain the client's name, project number and sample#, as well as any other pertinent information for that sample. There were no non-conformances noted during sample receipt. The temperature of the sample cooler was 2.6 $^{\circ}$ C. The case narrative is an integral part of the data report and should be used in conjunction with review of the hardcopy data package. If you have any questions regarding the data included in this hardcopy data package, please contact Pam Doughty, Quality Assurance Manager.

Volatile Organic (VOC) Analysis

Method 8260B

Three aqueous and nine soil/sediment samples was received on October 19, 2005 and were specified to be analyzed for a client-supplied list of volatile organics in accordance with USEPA method 8260B. The soil

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samples were extruded into deionized water and methanol starting at 1400 on the day of receipt and then immediately frozen.

All results were evaluated to the method detection limit; positive results between the MDL and reporting level were flagged with the "J" qualifier.

An aqueous laboratory control sample/laboratory control sample duplicate pair, with all target analytes spiked at 10ug/l, was analyzed in the twelve-hour sequence used to analyze the aqueous samples.

All of the soil samples were analyzed following low-level (heated purge) protocols. A laboratory control sample/laboratory control sample duplicate pair was analyzed in each sequence, along with a matrix spike/matrix spike duplicate pair on sample AH12671.

Linear or quadratic curves were used for these analytes whose average response factor exceeded 15%D in the initial calibration curve.

Form 5s in the data package have been manually edited to reflect Table 4 criteria in method 8260B (8260B-36, Revision 2, December 1996).

Initial low-level analyses of samples AH12671 and AH12673 yielded surrogate recovery and internal standard area recovery deviations. Reanalyses yielded similar results, comfirming matrix interference. Both sets of data for each sample are included in this data package.

Initial low level analyses of samples AH12665 and AH12667 yielded target analyte concentrations over the upper limit of the calibration curve. Reanalyses occurred using the methanol-extruded aliquots, and these analyses were given a "DL" suffix. Both sets of data for these samples are included in the data package.

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

Kelly Perkins

Kelly Perkins
Chemistry Laboratory Manager
11/7/05

APPENDIX A

Qualified Analytical Results

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB51-0405
samp_date	10/18/2005
lab_id	AH12665
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	2.9	B	B
BENZENE	25		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	21		

nsample	05SB51-0405
samp_date	10/18/2005
lab_id	AH12665
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	130		
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	7.1	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	1.2	J	P
TOTAL XYLENES	320		
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

nsample	05SB51-0405DL
samp_date	10/18/2005
lab_id	AH12665
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHYL CYCLOHEXANE	94	J	GP

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB51-1819
samp_date	10/18/2005
lab_id	AH12666
qc_type	NM
units	UG/KG
Pct_Solids	88.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	0.55	J	P
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	4.2	J	P
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	0.56	J	P
ACETONE	2.1	B	B
BENZENE	2	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	1.3	J	P
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

nsample	05SB51-1819
samp_date	10/18/2005
lab_id	AH12666
qc_type	NM
units	UG/KG
Pct_Solids	88.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	8.2	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	1	U	

nsample	05SB54-0001
samp_date	10/18/2005
lab_id	AH12673
qc_type	NM
units	UG/KG
Pct_Solids	89.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHYL ACETATE	11	J	R

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB54-0001RE
samp_date	10/18/2005
lab_id	AH12673
qc_type	NM
units	UG/KG
Pct_Solids	89.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	UJ	N
1,1,2,2-TETRACHLOROETHANE	1	UJ	N
1,1,2-TRICHLOROETHANE	1	UJ	N
1,1,2-TRICHLOROTRIFLUOROETHANE	10	UJ	N
1,1-DICHLOROETHANE	10	UJ	N
1,1-DICHLOROETHENE	10	UJ	N
1,2,4-TRICHLOROBENZENE	10	UJ	N
1,2-DIBROMO-3-CHLOROPROPANE	1	UJ	N
1,2-DIBROMOETHANE	1	UJ	N
1,2-DICHLOROBENZENE	1	J	NPR
1,2-DICHLOROETHANE	1	UJ	N
1,2-DICHLOROPROPANE	2	UJ	N
1,3-DICHLOROBENZENE	0.98	J	NPR
1,4-DICHLOROBENZENE	1	UJ	N
2-BUTANONE	6.9	J	NPR
2-HEXANONE	10	UJ	N
4-METHYL-2-PENTANONE	10	UJ	N
ACETONE	29	J	CNR
BENZENE	2	UJ	N
BROMODICHLOROMETHANE	1	UJ	N
BROMOFORM	5	UJ	N
BROMOMETHANE	2	UJ	N
CARBON DISULFIDE	1.6	J	NPR
CARBON TETRACHLORIDE	1	UJ	N
CHLOROBENZENE	10	UJ	N
CHLORODIBROMOMETHANE	2	UJ	N
CHLOROETHANE	2	UJ	CN
CHLOROFORM	1	UJ	N
CHLOROMETHANE	10	UJ	N
CIS-1,2-DICHLOROETHENE	10	UJ	N
CIS-1,3-DICHLOROPROPENE	10	UJ	N
CYCLOHEXANE	10	UJ	N

nsample	05SB54-0001RE
samp_date	10/18/2005
lab_id	AH12673
qc_type	NM
units	UG/KG
Pct_Solids	89.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	UJ	N
ETHYLBENZENE	10	UJ	N
ISOPROPYLBENZENE	10	UJ	N
METHYL CYCLOHEXANE	10	UJ	N
METHYL TERT-BUTYL ETHER	1.1	J	NR
METHYLENE CHLORIDE	23	B	A
STYRENE	10	UJ	N
TETRACHLOROETHENE	2	UJ	N
TOLUENE	10	UJ	N
TOTAL XYLENES	1	J	NPR
TRANS-1,2-DICHLOROETHENE	10	UJ	N
TRANS-1,3-DICHLOROPROPENE	10	UJ	N
TRICHLOROETHENE	1	UJ	N
TRICHLOROFLUOROMETHANE	1.5	B	A
VINYL CHLORIDE	1	UJ	N

nsample	05SB54-1718
samp_date	10/18/2005
lab_id	AH12674
qc_type	NM
units	UG/KG
Pct_Solids	86.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	U	
BENZENE	2	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB54-1718
samp_date	10/18/2005
lab_id	AH12674
qc_type	NM
units	UG/KG
Pct_Solids	86.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	6.4	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	1	U	

nsample	05SB55-0001
samp_date	10/18/2005
lab_id	AH12670
qc_type	NM
units	UG/KG
Pct_Solids	91.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	U	
BENZENE	2	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

nsample	05SB55-0001
samp_date	10/18/2005
lab_id	AH12670
qc_type	NM
units	UG/KG
Pct_Solids	91.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	7	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB55-2223
samp_date	10/18/2005
lab_id	AH12671
qc_type	NM
units	UG/KG
Pct_Solids	89.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHYL ACETATE	5.2	J	PR

nsample	05SB55-2223RE
samp_date	10/18/2005
lab_id	AH12671
qc_type	NM
units	UG/KG
Pct_Solids	89.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	UJ	N
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	UJ	N
1,1-DICHLOROETHENE	10	UJ	N
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	1	UJ	N
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	2.8	J	NP
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	1	B	B
BENZENE	2	UJ	N
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	UJ	N
CARBON DISULFIDE	10	UJ	N
CARBON TETRACHLORIDE	1	UJ	N
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	UJ	CN
CHLOROFORM	1	UJ	N
CHLOROMETHANE	10	UJ	N
CIS-1,2-DICHLOROETHENE	10	UJ	N
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	UJ	N

nsample	05SB55-2223RE
samp_date	10/18/2005
lab_id	AH12671
qc_type	NM
units	UG/KG
Pct_Solids	89.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	UJ	N
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL CYCLOHEXANE	10	UJ	N
METHYL TERT-BUTYL ETHER	1	UJ	N
METHYLENE CHLORIDE	8.7	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	UJ	N
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	UJ	N
VINYL CHLORIDE	1	UJ	N

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB56-1011
samp_date	10/18/2005
lab_id	AH12668
qc_type	NM
units	UG/KG
Pct_Solids	87.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	0.58	J	P
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	7.8		
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	1.5	B	B
BENZENE	2	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

nsample	05SB56-1011
samp_date	10/18/2005
lab_id	AH12668
qc_type	NM
units	UG/KG
Pct_Solids	87.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	6.4	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	1	U	

nsample	05SB56-1920
samp_date	10/18/2005
lab_id	AH12669
qc_type	NM
units	UG/KG
Pct_Solids	88.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	3.7		
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	U	
BENZENE	2	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB56-1920
samp_date	10/18/2005
lab_id	AH12669
qc_type	NM
units	UG/KG
Pct_Solids	88.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	6.7	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	1	U	

nsample	Dup-02
samp_date	10/18/2005
lab_id	AH12667
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	05SB51-0405

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	0.56	J	P
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	U	
BENZENE	28		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	29		

nsample	Dup-02
samp_date	10/18/2005
lab_id	AH12667
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	05SB51-0405

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	120		
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	6.9	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2	U	
TOLUENE	1.1	J	P
TOTAL XYLENES	230		
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2192

SDG: TT101905 MEDIA: SOIL DATA FRACTION: OV

nsample	Dup-02DL
samp_date	10/18/2005
lab_id	AH12667
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	05SB51-0405

Parameter	Result	Val Qual	Qual Code
METHYL CYCLOHEXANE	160	J	G

PROJ_NO: 2192

SDG: TT101905 MEDIA: WATER DATA FRACTION: OV

nsample	FB10180501
samp_date	10/18/2005
lab_id	AH12664
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	2	U	
1,1,2-TRICHLOROETHANE	2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	2	U	
1,1-DICHLOROETHANE	2	U	
1,1-DICHLOROETHENE	2	U	
1,2,4-TRICHLOROBENZENE	2	U	
1,2-DIBROMO-3-CHLOROPROPANE	2	U	
1,2-DIBROMOETHANE	2	U	
1,2-DICHLOROBENZENE	2	U	
1,2-DICHLOROETHANE	2	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	2	U	
1,4-DICHLOROBENZENE	2	U	
2-BUTANONE	10	U	
2-HEXANONE	2	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	1.4	J	
BENZENE	2	U	
BROMODICHLOROMETHANE	2	U	
BROMOFORM	2	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	2	U	
CHLOROBENZENE	2	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	2	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	2	U	
CIS-1,3-DICHLOROPROPENE	2	U	
CYCLOHEXANE	10	U	

nsample	FB10180501
samp_date	10/18/2005
lab_id	AH12664
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	2	U	
ETHYLBENZENE	2	U	
ISOPROPYLBENZENE	2	U	
METHYL ACETATE	2	U	
METHYL CYCLOHEXANE	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	2	U	
TETRACHLOROETHENE	2	U	
TOLUENE	2	U	
TOTAL XYLENES	2	U	
TRANS-1,2-DICHLOROETHENE	2	U	
TRANS-1,3-DICHLOROPROPENE	2	U	
TRICHLOROETHENE	2	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL CHLORIDE	2	U	

nsample	RB10180501
samp_date	10/18/2005
lab_id	AH12672
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	2	U	
1,1,2-TRICHLOROETHANE	2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	2	U	
1,1-DICHLOROETHANE	2	U	
1,1-DICHLOROETHENE	2	U	
1,2,4-TRICHLOROBENZENE	2	U	
1,2-DIBROMO-3-CHLOROPROPANE	2	U	
1,2-DIBROMOETHANE	2	U	
1,2-DICHLOROBENZENE	2	U	
1,2-DICHLOROETHANE	2	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	2	U	
1,4-DICHLOROBENZENE	2	U	
2-BUTANONE	10	U	
2-HEXANONE	2	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2.4	J	
BENZENE	2	U	
BROMODICHLOROMETHANE	2	U	
BROMOFORM	2	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	2	U	
CHLOROBENZENE	2	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	2	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	2	U	
CIS-1,3-DICHLOROPROPENE	2	U	
CYCLOHEXANE	10	U	

PROJ_NO: 2192

SDG: TT101905 MEDIA: WATER DATA FRACTION: OV

nsample	RB10180501
samp_date	10/18/2005
lab_id	AH12672
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	2	U	
ETHYLBENZENE	2	U	
ISOPROPYLBENZENE	2	U	
METHYL ACETATE	2	U	
METHYL CYCLOHEXANE	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	2	U	
TETRACHLOROETHENE	2	U	
TOLUENE	2	U	
TOTAL XYLENES	2	U	
TRANS-1,2-DICHLOROETHENE	2	U	
TRANS-1,3-DICHLOROPROPENE	2	U	
TRICHLOROETHENE	2	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL CHLORIDE	2	U	

nsample	TB10180501
samp_date	10/18/2005
lab_id	AH12663
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	2	U	
1,1,2-TRICHLOROETHANE	2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	2	U	
1,1-DICHLOROETHANE	2	U	
1,1-DICHLOROETHENE	2	U	
1,2,4-TRICHLOROBENZENE	2	U	
1,2-DIBROMO-3-CHLOROPROPANE	2	U	
1,2-DIBROMOETHANE	2	U	
1,2-DICHLOROBENZENE	2	U	
1,2-DICHLOROETHANE	2	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	2	U	
1,4-DICHLOROBENZENE	2	U	
2-BUTANONE	10	U	
2-HEXANONE	2	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	1	J	
BENZENE	2	U	
BROMODICHLOROMETHANE	2	U	
BROMOFORM	2	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	2	U	
CHLOROBENZENE	2	U	
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	2	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	2	U	
CIS-1,3-DICHLOROPROPENE	2	U	
CYCLOHEXANE	10	U	

nsample	TB10180501
samp_date	10/18/2005
lab_id	AH12663
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	2	U	
ETHYLBENZENE	2	U	
ISOPROPYLBENZENE	2	U	
METHYL ACETATE	2	U	
METHYL CYCLOHEXANE	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	2	U	
TETRACHLOROETHENE	2	U	
TOLUENE	2	U	
TOTAL XYLENES	2	U	
TRANS-1,2-DICHLOROETHENE	2	U	
TRANS-1,3-DICHLOROPROPENE	2	U	
TRICHLOROETHENE	2	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL CHLORIDE	2	U	

Qualifier Codes:

a	=	Lab Blank Contamination
b	=	Field Blank Contamination
c	=	Calibration (i.e., %RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
d	=	MS/MSD Noncompliance
e	=	LSC/LSCD Noncompliance
f	=	Laboratory Duplicate Imprecision
g	=	Field Duplicate Imprecision
h	=	Holding Time Exceedance
i	=	ICP Serial Dilution Noncompliance
j	=	GFAA PDS – GFAA MSA's r<0.995 (correlation coefficient)
k	=	ICP Interference – include ICSAB %Rs
l	=	Instrument Calibration Range Exceedance
m	=	Sample Preservation
n	=	Internal Standard Noncompliance
o	=	Poor Instrument Performance (i.e. baseline drifting)
p	=	Uncertainty Near Detection Limit (<2 x IDL for inorganics and < CRQL for organics)
q	=	Other Problems (can encompass of number of issues)
r	=	Surrogates Recovery Noncompliance
s	=	Pesticide/PCB Resolution
t	=	% Breakdown Noncompliance for DDT and Endrin
u	=	Pesticide/PCB % Difference Between Columns for Positive Results
v	=	Non-linear Calibrations, Tuning r <0.995 (correlation coefficient)

Data Qualifier Key:

B	-	Positive result is considered to be an artifact of blank contamination and should not be considered present.
J	-	Value is considered estimated due to exceedance of technical quality control or because result is less than the Contract Required Quantitation Limit (CRQL).
L	-	Positive result is considered biased low due to exceedance of technical quality control criteria.
K	-	Positive result is considered biased high due to exceedance of technical quality control criteria.
R	-	Positive result is considered unusable due to exceedance of technical quality control criteria.
U	-	Value is a non-detected result as reported by the laboratory.
UJ	-	Non-detected result is considered estimated due to exceedance of technical quality control criteria.
UL	-	Non-detected result is considered biased low due to exceedance of technical quality control criteria.

APPENDIX B

Results as Reported by the Laboratory

Northeast Laboratory SERVICES

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12674
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 01:28 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB54-1718
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Acetone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12674
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 01:28 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB54-1718
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Toluene-d8 (Surrogate)	101		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,2-Dichloroethane-d4 (Surrogate)	130		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
Methylene Chloride	6.4	B	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI
4-Bromofluorobenzene (Surrogate)	99		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	17:18	NMI

* *The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.*
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
This soil sample was extruded on October 19 at 2:00 PM.

Solids, Percent	86		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

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ANALYSIS REPORT

Attention: AMY THOMSON
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FOSTER PLAZA 7
661 ANDERSEN DR
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Lab ID Number: AH12663
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 07:38 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: T-BLANK
Sample Description: TB10180501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
Acetone	1.0	J	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,1,1-Trichloroethane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
2-Butanone	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Carbon Disulfide	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Cyclohexane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,1,2,2-Tetrachloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,1,2-Trichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,1-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,1-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,2,4-Trichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,2-Dibromo-2-chloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,2-Dibromoethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,2-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,2-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,2-Dichloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,3-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,4-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
2-Hexanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
4-Methyl-2-pentanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Benzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Bromodichloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Bromoform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Bromomethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Carbon Tetrachloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Chlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Chloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Chloroform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Chloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
cis-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
cis-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Dibromochloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12663
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 07:38 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: T-BLANK
Sample Description: TB10180501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Dichlorodifluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Ethylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Isopropylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Methyl Acetate	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Methyl tert-Butyl Ether	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Methylcyclohexane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Methylene Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Styrene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Tetrachloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Toluene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
trans-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Trichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Trichlorofluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Vinyl Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Xylenes (Total)	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
4-Bromofluorobenzene (Surrogate)	91		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
Toluene-d8 (Surrogate)	92		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI
1,2-Dichloroethane-d4 (Surrogate)	95		%	70	EPA 8260B	10/28/2005	3:02	10/28/2005	8:25	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "U" qualifier indicates the compound was analyzed for but not detected.

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
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Lab ID Number: AH12664
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 07:45 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: FB10180501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
Acetone	1.4	J	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,1,1-Trichloroethane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
2-Butanone	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Carbon Disulfide	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Cyclohexane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,1,2,2-Tetrachloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,1,2-Trichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,1-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,1-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,2,4-Trichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,2-Dibromo-2-chloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,2-Dibromoethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,2-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,2-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,2-Dichloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,3-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,4-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
2-Hexanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
4-Methyl-2-pentanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Benzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Bromodichloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Bromoform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Bromomethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Carbon Tetrachloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Chlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Chloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Chloroform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Chloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
cis-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
cis-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Dibromochloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
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FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12664
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 07:45 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: FB10180501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Dichlorodifluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Ethylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Isopropylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Methyl Acetate	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Methyl tert-Butyl Ether	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Methylcyclohexane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Methylene Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Styrene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Tetrachloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Toluene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
trans-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Trichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Trichlorofluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Vinyl Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Xylenes (Total)	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
1,2-Dichloroethane-d4 (Surrogate)	90		%	70	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
4-Bromofluorobenzene (Surrogate)	90		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI
Toluene-d8 (Surrogate)	93		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	9:22	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "U" qualifier indicates the compound was analyzed for but not detected.

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
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Lab ID Number: AH12665
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 08:37 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB51-0405
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Toluene	1.2	J	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
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Lab ID Number: AH12665
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 08:37 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB51-0405
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Toluene-d8 (Surrogate)	100		%	61	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
4-Bromofluorobenzene (Surrogate)	106		%	68	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,2-Dichloroethane-d4 (Surrogate)	123		%	61	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Ethylbenzene	130		ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Acetone	2.9	J	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Cyclohexane	21		ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Methylcyclohexane	240	E	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Benzene	25		ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Xylenes (Total)	320		ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI
Methylene Chloride	7.1	B	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	12:22	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
This sample was extruded on October 19, 2005 2:00 PM.

EPA 8260-Tetra Tech-Dilution

1,1,2,2-Tetrachloroethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,1,2-Trichloroethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,2-Dibromo-2-chloropropane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,2-Dibromoethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,2-Dichloroethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,4-Dichlorobenzene	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Bromodichloromethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Carbon Tetrachloride	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Chloroform	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Trichloroethene	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12665
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 08:37 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB51-0405
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Vinyl Chloride	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,1,1-Trichloroethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,1-Dichloroethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,1-Dichloroethene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,2,4-Trichlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,2-Dichlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,3-Dichlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
2-Hexanone	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
4-Methyl-2-pentanone	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Acetone	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Carbon Disulfide	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Chlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Chloromethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
cis-1,2-Dichloroethene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
cis-1,3-Dichloropropene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Cyclohexane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Dichlorodifluoromethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Isopropylbenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Methyl Acetate	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Styrene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Toluene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
trans-1,2-Dichloroethene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
trans-1,3-Dichloropropene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Trichlorofluoromethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Xylenes (Total)	180		ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,2-Dichloropropane	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Benzene	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Chloroethane	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Dibromochloromethane	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Methylene Chloride	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Tetrachloroethene	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Bromomethane	29		ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
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Lab ID Number: AH12665
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 08:37 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB51-0405
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methyl tert-Butyl Ether	32		ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Bromoform	55	U	ug/Kg	55	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
2-Butanone	80	J	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Ethylbenzene	81	J	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Toluene-d8 (Surrogate)	89		%	70	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
1,2-Dichloroethane-d4 (Surrogate)	91		%	83	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
Methylcyclohexane	94	J	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI
4-Bromofluorobenzene (Surrogate)	95		%	80	EPA 8260B	11/01/2005	8:38	11/01/2005	17:57	NMI

★ *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
The methanol extraction was used for this dilution.
This sample was extruded on October 19, 2005 2:00 PM.

Solids, Percent	82		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

Comments:

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Results meet the requirements of the NELAC standards unless otherwise noted above.

Reviewed By: Kelly A. Perkins **Review Date:** 11/02/2005

Kelly Perkins, Lab Manager

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12666
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 09:30 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB51-1819
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1,2-Trichloroethane	0.55	J	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
4-Methyl-2-pentanone	0.56	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
cis-1,2-Dichloroethene	1.3	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12666
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 09:30 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB51-1819
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Toluene-d8 (Surrogate)	101		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,2-Dichloroethane-d4 (Surrogate)	140		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Acetone	2.1	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
1,1-Dichloroethane	4.2	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
Methylene Chloride	8.2	B	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI
4-Bromofluorobenzene (Surrogate)	94		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	13:21	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
This soil sample was extruded on October 19 at 2:00 PM.

Solids, Percent	88		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12667
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:00 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: Dup-02
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1-Dichloroethane	0.56	J	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Toluene	1.1	J	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,1,2-Trichloroethane	10	U	ug/Kg	1.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Acetone	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12667
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:00 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: Dup-02
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
4-Bromofluorobenzene (Surrogate)	100		%	68	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,2-Dichloroethane-d4 (Surrogate)	118		%	61	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Ethylbenzene	120		ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Methylcyclohexane	210	E	ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Xylenes (Total)	230		ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Benzene	28		ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Cyclohexane	29		ug/Kg	10	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Methylene Chloride	6.9	B	ug/Kg	2.0	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI
Toluene-d8 (Surrogate)	99		%	61	EPA 8260B	10/27/2006	8:59	10/27/2005	13:54	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
This sample was extruded on October 19, 2005 2:00 PM.

EPA 8260-Tetra Tech-Dilution

1,1,2,2-Tetrachloroethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,1,2-Trichloroethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,2-Dibromo-2-chloropropane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,2-Dibromoethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,2-Dichloroethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,4-Dichlorobenzene	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Bromodichloromethane	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Carbon Tetrachloride	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Chloroform	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Methyl tert-Butyl Ether	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12667
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:00 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: Dup-02
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Trichloroethene	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Vinyl Chloride	11	U	ug/Kg	11	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,1,1-Trichloroethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,1-Dichloroethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,1-Dichloroethene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,2,4-Trichlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,2-Dichlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,3-Dichlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
2-Butanone	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
2-Hexanone	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
4-Methyl-2-pentanone	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Acetone	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Carbon Disulfide	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Chlorobenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Chloromethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
cis-1,2-Dichloroethene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
cis-1,3-Dichloropropene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Cyclohexane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Dichlorodifluoromethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Isopropylbenzene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Methyl Acetate	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Styrene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Toluene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
trans-1,2-Dichloroethene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
trans-1,3-Dichloropropene	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Trichlorofluoromethane	110	U	ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Ethylbenzene	130		ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Methylcyclohexane	160		ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,2-Dichloropropane	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Benzene	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Bromomethane	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Chloroethane	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12667
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:00 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: Dup-02
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Dibromochloromethane	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Methylene Chloride	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Tetrachloroethene	22	U	ug/Kg	22	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Xylenes (Total)	300		ug/Kg	110	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Bromoform	55	U	ug/Kg	55	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
Toluene-d8 (Surrogate)	87		%	70	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
1,2-Dichloroethane-d4 (Surrogate)	92		%	83	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI
4-Bromofluorobenzene (Surrogate)	95		%	80	EPA 8260B	11/01/2005	8:38	11/01/2005	18:26	NMI

* *The "U" qualifier indicates the compound was analyzed for but not detected.*
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
The methanol extraction of this sample was used for this analysis.
This sample was extruded on October 19, 2005 2:00 PM.

Solids, Percent	83		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

Comments:

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Results meet the requirements of the NELAC standards unless otherwise noted above.

Reviewed By: Kelly A. Perkins **Review Date:** 11/02/2005
Kelly Perkins, Lab Manager

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12668
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 10:25 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB56-1011
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1-Dichloroethane	0.58	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Acetone	1.5	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12668
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 10:25 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB56-1011
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,2-Dichloroethane-d4 (Surrogate)	122		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Methylene Chloride	6.4	B	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
1,2-Dichloroethane	7.8		ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
4-Bromofluorobenzene (Surrogate)	94		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI
Toluene-d8 (Surrogate)	99		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	14:56	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
This soil sample was extruded on October 19 at 2:00 PM.

Solids, Percent	87		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12669
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 10:54 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB56-1920
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Acetone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12669
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 10:54 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB56-1920
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,2-Dichloroethane-d4 (Surrogate)	121		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
1,2-Dichloroethane	3.7		ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Methylene Chloride	6.7	B	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
4-Bromofluorobenzene (Surrogate)	94		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI
Toluene-d8 (Surrogate)	98		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	15:34	NMI

★ *The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.*
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
This soil sample was extruded on October 19 at 2:00 PM.

Solids, Percent	88		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12670
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 11:09 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB55-0001
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Acetone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI

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ANALYSIS REPORT

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661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12670
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 11:09 AM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOIL
Sample Description: 05SB55-0001
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Toluene-d8 (Surrogate)	101		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,2-Dichloroethane-d4 (Surrogate)	130		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
Methylene Chloride	7.0	B	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI
4-Bromofluorobenzene (Surrogate)	99		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	17:56	NMI

* *The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.*
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
This soil sample was extruded on October 19 at 2:00 PM.

Solids, Percent	91		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12671
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:16 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB55-2223
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
2-Butanone	1.6	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Acetone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12671
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:16 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB55-2223
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,2-Dichloroethane-d4 (Surrogate)	158		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Methyl Acetate	5.2	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Methylene Chloride	7.5	B	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
Toluene-d8 (Surrogate)	83		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI
4-Bromofluorobenzene (Surrogate)	84		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	16:08	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 5.6 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
Initial analysis yielded internal standard areas and/or surrogate recovery deviations. Reanalysis yielded similar results confirming matrix interference.
This sample was extruded on October 19, 2005 2:00 PM.

EPA 8260-Tetra Tech-Reanalysis

1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI

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P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:16 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB55-2223
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Acetone	1.0	J	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,2-Dichloroethane-d4 (Surrogate)	148		%	61	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
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661 ANDERSEN DR
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Lab ID Number: AH12671
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:16 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB55-2223
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
2-Butanone	2.8	J	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Methylene Chloride	8.7	B	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
4-Bromofluorobenzene (Surrogate)	94		%	68	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI
Toluene-d8 (Surrogate)	99		%	61	EPA 8260B	10/31/2005	8:00	10/31/2005	15:16	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 6.0 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
Initial analysis yielded internal standard areas and/or surrogate recovery deviations. Reanalysis yielded similar results confirming matrix interference.
This sample was extruded on October 19, 2005 2:00 PM.

Solids, Percent	88		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

Comments:

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Results meet the requirements of the NELAC standards unless otherwise noted above.

Reviewed By: Kelly A. Perkins **Review Date:** 11/02/2005
Kelly Perkins, Lab Manager

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ANALYSIS REPORT

Attention: AMY THOMSON
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661 ANDERSEN DR
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Lab ID Number: AH12672
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:28 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: RB10180501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
1,1,1-Trichloroethane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
2-Butanone	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Carbon Disulfide	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Cyclohexane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,1,2,2-Tetrachloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,1,2-Trichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,1-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,1-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,2,4-Trichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,2-Dibromo-2-chloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,2-Dibromoethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,2-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,2-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,2-Dichloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,3-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,4-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
2-Hexanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
4-Methyl-2-pentanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Benzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Bromodichloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Bromoform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Bromomethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Carbon Tetrachloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Chlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Chloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Chloroform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Chloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
cis-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
cis-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Dibromochloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Dichlorodifluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12672
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:28 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: RB10180501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Ethylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Isopropylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Methyl Acetate	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Methyl tert-Butyl Ether	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Methylcyclohexane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Methylene Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Styrene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Tetrachloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Toluene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
trans-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Trichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Trichlorofluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Vinyl Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Xylenes (Total)	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Acetone	2.4	J	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
4-Bromofluorobenzene (Surrogate)	90		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
Toluene-d8 (Surrogate)	91		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI
1,2-Dichloroethane-d4 (Surrogate)	97		%	70	EPA 8260B	10/28/2005	3:02	10/28/2005	9:58	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "U" qualifier indicates the compound was analyzed for but not detected.

0035

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
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Lab ID Number: AH12673
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:32 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB54-0001
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
Trichlorofluoromethane	1.0	J	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Carbon Disulfide	1.1	J	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,1,2,2-Tetrachloroethane	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,1,2-Trichloroethane	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,2-Dibromo-2-chloropropane	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,2-Dibromoethane	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,2-Dichloroethane	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,4-Dichlorobenzene	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Bromodichloromethane	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Carbon Tetrachloride	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Chloroform	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Methyl tert-Butyl Ether	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Trichloroethene	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Vinyl Chloride	1.3	U	ug/Kg	1.3	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Methyl Acetate	<13		ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,1,1-Trichloroethane	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,1-Dichloroethane	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,1-Dichloroethene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,2,4-Trichlorobenzene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,2-Dichlorobenzene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,3-Dichlorobenzene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
2-Butanone	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
2-Hexanone	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
4-Methyl-2-pentanone	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Acetone	13		ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Chlorobenzene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Chloromethane	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
cis-1,2-Dichloroethene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
cis-1,3-Dichloropropene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Cyclohexane	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Dichlorodifluoromethane	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
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661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12673
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:32 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB54-0001
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Ethylbenzene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Isopropylbenzene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Methylcyclohexane	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Styrene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Toluene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
trans-1,2-Dichloroethene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
trans-1,3-Dichloropropene	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Xylenes (Total)	13	U	ug/Kg	13	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Methylene Chloride	13	B	ug/Kg	2.6	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,2-Dichloroethane-d4 (Surrogate)	156		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
1,2-Dichloropropane	2.6	U	ug/Kg	2.6	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Benzene	2.6	U	ug/Kg	2.6	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Bromomethane	2.6	U	ug/Kg	2.6	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Chloroethane	2.6	U	ug/Kg	2.6	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Dibromochloromethane	2.6	U	ug/Kg	2.6	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Tetrachloroethene	2.6	U	ug/Kg	2.6	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Bromoform	6.5	U	ug/Kg	6.5	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
4-Bromofluorobenzene (Surrogate)	78		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI
Toluene-d8 (Surrogate)	81		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	16:41	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 4.8 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
Initial analysis yielded internal standard areas and/or surrogate recovery deviations. Reanalysis yielded similar results confirming matrix interference.
This sample was extruded on October 19, 2005 2:00 PM.

EPA 8260-Tetra Tech-Reanalysis

1,3-Dichlorobenzene	0.98	J	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12673
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:32 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB54-0001
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,2-Dichlorobenzene	1.0	J	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Xylenes (Total)	1.0	J	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Methyl tert-Butyl Ether	1.1		ug/Kg	1.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Trichlorofluoromethane	1.5	J,B	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Carbon Disulfide	1.6	J	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,2-Dichloroethane-d4 (Surrogate)	174		%	61	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12673
Project Number: NASJRB Willow Grove
P.O. Number: AH12663-74
Date Collected: 10/18/2005 12:32 PM
DateReceived: 10/19/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOIL
Sample Description: 05SB54-0001
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Methylene Chloride	23	B	ug/Kg	2.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Acetone	29		ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
2-Butanone	6.9	J	ug/Kg	10	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
4-Bromofluorobenzene (Surrogate)	85		%	68	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI
Toluene-d8 (Surrogate)	93		%	61	EPA 8260B	10/31/2005	8:00	10/31/2005	13:33	NMI

* *The "J" value denotes an estimated concentration below the laboratory's normal reporting limit.*
The "B" value denotes a compound found in the daily method blank. The concentration of Methylene Chloride in the daily method blank was 6.0 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
Reporting limits are adjusted for sample weight and total solids. Results are expressed on a dry weight basis.
Initial analysis yielded internal standard areas and/or surrogate recovery deviations. Reanalysis yielded similar results confirming matrix interference.
This sample was extruded on October 19, 2005 2:00 PM.

Solids, Percent	89		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

Comments:

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Results meet the requirements of the NELAC standards unless otherwise noted above.

Reviewed By: Kelly A. Perkins **Review Date:** 11/02/2005
Kelly Perkins, Lab Manager

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APPENDIX C

Support Documentation

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
2192	NASJRB Willow Grove	Russ Turner (610) 491-9688	Northeast Laboratory Services
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
Vince Shickora		Vince Shickora (610) 909-3264	227 China Rd.
		CARRIER/WAYBILL NUMBER	CITY, STATE
		Fed Ex # 8389 5045 3308	Winslow Maine 04901

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☑ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G P G

PRESERVATIVE USED: HCl – –

DATE YEAR 2005	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: VOA 40 ml Vials	5 gram Encores	VOA 4 ounce Jar	Dry weight					COMMENTS
10/18	0738	TB10180501	AQ	G	3	3					AH12663	.1-3		Lab prepared Trip Blank
10/18	0745	FB10180501	AQ	G	3	3					AH12664	.1-3		Field Blank
10/18	0837	055B51-0405	Soil	G	4		3	1			12665	.1-4		
10/18	0930	055B51-1819	Soil	G	4		3	1			12666	.1-4		
10/18	0000	Dup-02	Soil	G	4		3	1			12667	.1-4		
10/18	1025	055B56-1011	Soil	G	4		3	1			12668	.1-4		
10/18	1054	055B56-1920	Soil	G	4		3	1			12669	.1-4		
10/18	1109	055B55-0001	Soil	G	4		3	1			12670	.1-4		
10/18	1216	055B55-2223	Soil	G	10		9	1			12671	.1-10		Do MS/MSD
10/18	1228	RB10180501	AQ	G	3	3					12672	.1-3		Rinsate Blank
10/18	1232	055B54-0001	Soil	G	4		3	1			12673	.1-4		
10/18	1328	055B54-1718	Soil	G	4		3	1			12674	.1-4		

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	10-18-05	1800		10/19/05	11AM
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: SDG TT101905 2.6°

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

0554

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8260 Blank

Lab Name:	NEL	Contract:	Tetra Tech
Lab Code:	SBLK	SDG No.:	TT101905
Sample ID:	8260 Blank	Date Received:	10/31/05
Lab File ID:	B7967	Date Analyzed:	10/31/05
Level (Low/Med)	low	Dilution Factor:	1
GC Column:	Restek Rtx-VMS 30m ID: 0.25		

CAS NO	COMPOUND		CONCENTRATION UNITS : ug/kg	QUALIFIER
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl Chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		0.8	J
60-29-7	Diethyl Ether		1.0	J
67-64-1	Acetone		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
75-15-0	Carbon Disulfide		5.0	U
75-09-2	Methylene Chloride		6.0	
1634-04-4	t-Butyl-Methyl Ether (MTBE)		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
78-93-3	2-Butanone (MEK)		5.0	U
594-20-7	cis-1,2-Dichloroethene		5.0	U
67-66-3	Chloroform		5.0	U
74-97-5	Bromochloromethane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		5.0	U
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-88-3	Toluene		5.0	U
74-95-3	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
591-78-6	2-Hexanone		5.0	U
127-18-4	Tetrachloroethene		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NEL Contract: Tetra Tech

Lab Code: Case No.: SAS No.: SDG No.: TT101905

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	SLCS 10/27/05	118	101	102	0
02	SLCSD 10/27/05	109	98	99	0
03	SBLK 10/27/05	132	100	97	0
04	AH12665	123	100	106	0
05	AH12666	140	101	94	0
06	AH12667	118	99	100	0
07	AH12668	122	99	94	0
08	AH12669	121	98	94	0
09	AH12671	158 *	83	84	1
10	AH12673	156 *	81	78	1
11	AH12674	130	101	99	0
12	AH12670	130	101	99	0
13	SLCS 10/31/05	121	102	102	0
14	SLCSD 10/31/05	126	104	105	0
15	SBLK 10/31/05	129	103	100	0
16	AH12673 RE	174 *	93	85	1
17	AH12671 RE	148	99	94	0
18	AH12671 MS	146	101	98	0
19	AH12671 MSD	141	101	97	0

05SB55-223
05SB54-001

05SB54-001 RE
05SB55-223 RE

QC LIMITS

SMC1	=	1,2-Dichloroethane-d4	(61-155)
SMC2	=	Toluene-d8	(61-134)
SMC3	=	4-Bromofluorobenzene	(68-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NEL Contract: Tetra Tech

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: TT101905

Lab File ID (Standard): B7902.D Date Analyzed: 10/27/05

Instrument ID: MS1 Time Analyzed: 09:24

GC Column: Restek Rtx- ID: 0.25 (mm) Heated Purge (Y/N): Y

	IS1 AREA #	IS1 RT #	IS2 AREA #	IS2 RT #	IS3 AREA #	IS3 RT #
12 HOUR STD	531474	7.37	858667	8.54	909635	12.14
UPPER LIMIT	1062948	6.87	1717334	8.04	1819270	11.64
LOWER LIMIT	265737	7.87	429334	9.04	454818	12.64
EPA SAMPLE NO.						
01 SLCS 10/27/05	590661	7.38	966008	8.53	1026888	12.14
02 SLCSD 10/27/05	605242	7.38	979420	8.53	1029513	12.14
03 SBLK 10/27/05	527834	7.39	937368	8.54	970129	12.14
04 AH12665	458036	7.39	805665	8.54	738465	12.14
05 AH12666	455183	7.38	917913	8.54	931038	12.14
06 AH12667	517121	7.38	897451	8.54	852219	12.14
07 AH12668	521058	7.39	921064	8.53	929780	12.14
08 AH12669	474856	7.38	850552	8.54	837154	12.14
09 AH12671	315080	7.38	555066	8.53	428791 *	12.14
10 AH12673	289583	7.37	506103	8.54	339416 *	12.14
11 AH12674	452600	7.37	799666	8.53	847882	12.14
12 AH12670	471602	7.38	829888	8.53	866278	12.14

0558 53-223
0558 54-001

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NEL Contract: Tetra Tech

Lab Code: Case No.: SAS No.: SDG No.: TT101905

Lab File ID (Standard): B7902.D Date Analyzed: 10/27/05

Instrument ID: MS1 Time Analyzed: 09:24

GC Column: Restek Rtx- ID: 0.25 (mm) Heated Purge (Y/N): ~~N~~ Y nu 11/7/10

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	766177	14.02				
	UPPER LIMIT	1532354	13.52				
	LOWER LIMIT	383089	14.52				
	EPA SAMPLE NO.						
01	SLCS 10/27/0	865694	14.01				
02	SLCSD 10/27/	876732	14.01				
03	SBLK 10/27/05	697888	14.01				
04	AH12665	503650	14.01				
05	AH12666	654424	14.01				
06	AH12667	592359	14.01				
07	AH12668	648698	14.01				
08	AH12669	581302	14.01				
09	AH12671	221033 *	14.01				
10	AH12673	146232 *	14.01				
11	AH12674	666420	14.00				
12	AH12670	678048	14.00				

55-223
54-061

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NEL Contract: Tetra Tech

Lab Code: Case No.: SAS No.: SDG No.: TT101905

Lab File ID (Standard): B7961.D Date Analyzed: 10/31/05

Instrument ID: MS1 Time Analyzed: 09:34

GC Column: Restek Rtx- ID: 0.25 (mm) Heated Purge (Y/N): Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1230779	7.38	1876756	8.54	1952597	12.14
UPPER LIMIT	2461558	6.88	3753512	8.04	3905194	11.64
LOWER LIMIT	615390	7.88	938378	9.04	976299	12.64
EPA SAMPLE NO.						
01 SLCS 10/31/05	926952	7.38	1628599	8.54	1677186	12.15
02 SLCSD 10/31/05	912794	7.38	1629778	8.54	1628177	12.15
03 ~~SBLK 10/31/05~~	866241	7.40	1571428	8.54	1569604	12.14
04 AH12673 RE	274040 *	7.40	538613 *	8.55	430450 *	12.15
05 AH12671 RE	607687 *	7.40	1223130	8.55	1217299	12.15
06 AH12671 MS	559564 *	7.39	1099490	8.55	1074860	12.14
07 AH12671 MSD	629898	7.39	1244230	8.54	1248781	12.14

54-001 RB
53-223 RB

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NEL Contract: Tetra Tech

Lab Code: Case No.: SAS No.: SDG No.: TT101905

Lab File ID (Standard): B7961.D Date Analyzed: 10/31/05

Instrument ID: MS1 Time Analyzed: 09:34

GC Column: Restek Rtx- ID: 0.25 (mm) Heated Purge (Y/N): ~~N~~ Y [illegible]

		IS4 AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	1546934		14.01									
	UPPER LIMIT	3093868		13.51									
	LOWER LIMIT	773467		14.51									
	EPA SAMPLE NO.												
01	SLCS 10/31/0	1346655		14.01									
02	SLCSD 10/31/	1326816		14.01									
03	~~SBLK 10/31/05~~	1138539		14.01									
04	AH12673 RE	200302 *		14.01									
05	~~AH12671 RE~~	849682		14.01									
06	AH12671 MS	800427		14.02									
07	AH12671 MSD	925392		14.01									

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B7961.D
Acq On : 31 Oct 05 9:34
Sample : VSTD050CCV
Misc :
MS Integration Params: rteint.p

Vial: 100
Operator:
Inst : SAVIOR
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL-53.M (RTE Integrator)
Title : NEL Volatiles
Last Update : Thu Oct 27 09:23:59 2005
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	161#	-0.06
2		Dichlorodifluoromethane	0.648	0.582	10.2	141	0.00
3		Chloromethane	0.579	0.689	-19.0	190#	-0.02
4	C	Vinyl Chloride	0.521	0.581	-11.5	178#	-0.02
5		Bromomethane	0.391	0.320	18.2	137	-0.02
6		Chloroethane	0.180	0.081#	55.0#	72	-0.01
7		Trichlorofluoromethane	0.750	0.519	30.8#	104	-0.02
8		Diethyl Ether	0.246	0.235	4.5	155#	-0.02
9		Acetone	0.260	0.136	47.7#	0#	-0.03
10		Methyl Acetate	0.201	0.213	-6.0	196#	-0.03
11	MC	1,1-Dichloroethene	0.556	0.522	6.1	149	-0.02
12		Iodomethane	0.645	0.579	10.2	141	-0.02
13		Acrolein	NT 0.028	0.028#	0.0	192#	-0.03
14		Allyl Chloride	0.407	0.371	8.8	147	-0.03
15		Carbon Disulfide	1.223	1.139	6.9	145	-0.02
16		Methylene Chloride	0.400	0.376	6.0	152#	-0.03
17		Acrylonitrile	0.099	0.170	NT -71.7#	327#	-0.05
18		t-Butyl-Methyl Ether (MTBE)	1.102	1.047	5.0	161#	-0.03
19		trans-1,2-Dichloroethene	0.494	0.463	6.3	148	-0.04
20		t-Butyl Alcohol (TBA)	0.050	0.054#	-8.0	221#	-0.04
21		di-Isopropyl Ether (DIPE)	0.914	1.576	NT -72.4#	279#	-0.05
22		Vinyl Acetate	0.591	0.933	NT -57.9#	269#	-0.05
23		1,1-Dichloroethane	0.637	0.878	-37.8#	215#	-0.04
24		t-Ethyl-Butyl Ether (ETBE)	1.078	1.439	NT -33.5#	222#	-0.05
25		2-Butanone (MEK)	0.461	0.476	-3.3	183#	-0.07
26		Propionitrile	0.054	0.064#	-18.5	234#	-0.09
27		2,2-Dichloropropane	0.868	0.760	12.4	137	-0.04
28		cis-1,2-Dichloroethene	0.597	0.661	-10.7	185#	-0.05
29		Methacrylonitrile	0.235	0.276	-17.4	215#	-0.07
30	C	Chloroform	0.930	0.829	10.9	142	-0.05
31		Cyclohexane	0.408	0.373	8.6	143	-0.03
32		Bromochloromethane	0.317	0.364	-14.8	184#	-0.05
33		t-Amyl-Methyl Ether (TAME)	1.355	1.269	6.3	152#	-0.08
34	S	1,2-Dichloroethane-d4	0.531	0.961	NT -81.0#	297#	-0.07
35		Tetrahydrofuran	0.145	0.183	NT -26.2#	235#	-0.07
36		1,1,1-Trichloroethane	0.871	0.710	18.5	129	-0.05
37		1-Chlorobutane	0.938	0.937	0.1	154#	-0.06

NT = Not Target Compound -- no action. PL

(#) = Out of Range

EVALUATION OF ORGANIC DUPLICATE ANALYSIS PRECISION

Precision Objectives		Compound >or=5xCRQL/MDL	Compound <5xCRQL
	Aqueous	RPD<or=30%	Difference < or =CRQL/MDL
	Solid	RPD<or=50%	Difference < or =2xCRQL/MDL
	Air	RPD<or=20%	Difference < or =CRQL/MDL

Sample ID:	05SB51-0405		DUP-02				
Laboratory ID:	AH12665		AH12667				
Sample Date:	10/18/2005		10/18/2005				
Duplicate:	DUP-02		05SB51-0405				
	RESULT	QUAL	RESULT	QUAL	RPD	CRQL/MDL	NOTES
PARAMETERS	mg/Kg		mg/Kg				
1;1-Dichloroethene	10	U	0.56	J	NA	10	2, IN
Benzene	25		28		-11.3	2	1, IN
Cyclohexane	21		29		-32.0	10	2, IN
Ethylbenzene	130		120		8.0	10	1, IN
Methylcyclohexane	94	J	160		-52.0	10	1, J
Toluene	1.2	J	1.1	J	8.7	10	2, IN
Xylenes	320		230		32.7	10	1, IN

NOTES

1 - When both results are > or = 5xCRQL/MDL, the acceptance limit is the relative percent difference must be < or = 30% for aqueous and air samples and must be < 50% for solid samples.

2 - When at least one of the results is < 5x CRQL/MDL, the acceptance limit is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

Q - The qualifier is entered to indicate if the anlayte was not detected or qualitatively questionable in the sample.

U - the compound was not detected in the sample at or above the associated numerical value.

NC - The RPD was not calculated because one of the results was not detected; the acceptance limit used is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

J - The positive results should be considered estimated.

B - The result should be considered non-detected or qualitatively questionable due to blank contamination.

IN - The results are acceptable.

COMMENTS

Methylcyclohexane was exceeded an RPD of 50%. These results should be estimated (J).

11/25/05

8260B Soil Volatile
Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Northeast Laboratory Services
SDG No. TT101905
Contractor:
Project No.
Case No.
Client No. Tetra Tech
Lab Code

Instrument ID: MS1
GC Column: Restek RTX-VMS, 0.25um ID, 30m

Laboratory control sample name: AH12671 MS/MSD

LCS File ID: B7972
Date Analyzed: 10/31/05
Time Analyzed: 15:55

LCSD File ID: B7974
Date Analyzed: 10/31/05
Time Analyzed: 17:17

Compound	MS Spike Added ug/kg	MSDSpike Added ug/kg	Sample Concentration ug/kg	MS Concentration ug/kg	MSD Concentration ug/kg	MS % Rec.	#	MSD % Rec.	#	QC Limits Recovery	% RPD	#	QC Limits RPD
Dichlorodifluoromethane	52.5	52.5	<1.0	37.3	37.8	71		72		60-140	1.1		20
Chloromethane	52.5	52.5	<1.0	77.5	76.0	148	*	145	*	60-140	1.9		20
Vinyl Chloride	52.5	52.5	<1.0	70.1	70.6	134		134		60-140	0.7		20
Bromomethane	52.5	52.5	<1.0	55.6	56.3	106		107		60-140	1.4		20
Chloroethane	52.5	52.5	<1.0	48.9	44.4	93		85		60-140	9.7		20
Trichlorofluoromethane	52.5	52.5	<1.0	80.3	82.3	153	*	157	*	60-140	2.5		20
Diethyl Ether	52.5	52.5	<1.0	94.2	94.8	179	*	181	*	60-140	0.7		20
Acetone	52.5	52.5	1.0	51.8	45.9	97		85		60-140	12.3		20
1,1-Dichloroethene	52.5	52.5	<1.0	86.1	83.7	164	*	159	*	60-140	2.8		20
Carbon Disulfide	52.5	52.5	<1.0	82.9	84.9	158		162	*	60-140	2.4		20
Methylene Chloride	52.5	52.5	8.7	91.4	89.5	157	*	154	*	60-140	2.4		20
t-Butyl-Methyl Ether (MTBE	105	105	<1.0	176.7	168.1	168	*	160	*	60-140	5.0		20
trans-1,2-Dichloroethene	52.5	52.5	<1.0	86.0	87.0	164	*	166	*	60-140	1.1		20
1,1-Dichloroethane	52.5	52.5	<1.0	86.3	91.6	164	*	174	*	60-140	5.9		20
2-Butanone (MEK)	52.5	52.5	2.8	91.3	85.8	169	*	158	*	60-140	6.3		20
cis-1,2-Dichloroethene	52.5	52.5	<1.0	88.7	88.9	169	*	169	*	60-140	0.2		20
Chloroform	52.5	52.5	<1.0	72.2	71.6	138		136		60-140	0.8		20
Bromochloromethane	52.5	52.5	<1.0	106.5	101.0	203	*	192	*	60-140	5.3		20
1,1,1-Trichloroethane	52.5	52.5	<1.0	66.4	64.8	126		123		60-140	2.4		20
Carbon Tetrachloride	52.5	52.5	<1.0	60.0	61.2	114		117		60-140	2.1		20
1,2-Dichloroethane	52.5	52.5	<1.0	77.7	76.3	148	*	145	*	60-140	1.8		20
Benzene	52.5	52.5	<1.0	76.9	76.0	147	*	145	*	60-140	1.2		20
Trichloroethene	52.5	52.5	<1.0	45.8	46.1	87		88		60-140	0.5		20
1,2-Dichloropropane	52.5	52.5	<1.0	69.2	68.5	132		131		60-140	1.0		20
Bromodichloromethane	52.5	52.5	<1.0	53.9	52.5	103		100		60-140	2.5		20
4-Methyl-2-Pentanone (MIB	52.5	52.5	<1.0	91.0	80.4	173	*	153	*	60-140	12.4		20
cis-1,3-Dichloropropene	52.5	52.5	<1.0	57.7	56.3	110		107		60-140	2.5		20
Toluene	52.5	52.5	<1.0	55.7	55.1	106		105		60-140	1.1		20
trans-1,3-Dichloropropene	52.5	52.5	<1.0	61.4	58.0	117		110		60-140	5.8		20
1,1,2-Trichloroethane	52.5	52.5	<1.0	58.7	56.2	112		107		60-140	4.4		20
2-Hexanone	52.5	52.5	<1.0	71.6	63.5	136		121		60-140	12.0		20
Tetrachloroethene	52.5	52.5	<1.0	41.4	42.4	79		81		60-140	2.4		20
Dibromochloromethane	52.5	52.5	<1.0	48.9	47.4	93		90		60-140	3.1		20
1,2-Dibromoethane	52.5	52.5	<1.0	56.9	54.5	108		104		60-140	4.3		20
1,1,1,2-Tetrachloroethane	52.5	52.5	<1.0	48.3	46.6	92		89		60-140	3.6		20
Ethylbenzene	52.5	52.5	<1.0	56.5	56.0	108		107		60-140	1.0		20
m,p-Xylene	105	105	<1.0	110.3	110.1	105		105		60-140	0.2		20
o-Xylene	52.5	52.5	<1.0	53.5	54.1	102		103		60-140	1.1		20
Styrene	52.5	52.5	<1.0	54.0	54.4	103		104		60-140	0.6		20
Bromoform	52.5	52.5	<1.0	51.1	48.5	97		92		60-140	5.1		20
1,1,2,2-Tetrachloroethane	52.5	52.5	<1.0	67.4	61.2	128		117		60-140	9.6		20
1,3-Dichlorobenzene	52.5	52.5	<1.0	52.6	51.9	100		99		60-140	1.4		20
1,4-Dichlorobenzene	52.5	52.5	<1.0	52.8	52.1	101		99		60-140	1.4		20
1,2-Dichlorobenzene	52.5	52.5	<1.0	53.9	53.5	103		102		60-140	0.8		20

RPD 0 out of 80 outside limits

Spike Recovery 29 out of 160 outside limits

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

Comments:

Compound	Spike Added ug/kg	Blank Concentration ug/kg	LCS Concentration ug/kg	LCSD Concentration ug/kg	LCS % Rec. #		LCSD % Rec. #		QC Limits Recovery	% RPD #		QC Limits RPD
1,3-Dichlorobenzene	50	<1.0	51.8	51.4	104		103		60-140	0.8		20
1,4-Dichlorobenzene	50	<1.0	52.3	51.9	105		104		60-140	0.7		20
1,2-Dichlorobenzene	50	<1.0	52.5	52.4	105		105		60-140	0.2		20
Methyl Acetate	50	<1.0	91.1	92.4	182	*	185	*	60-140	1.4		20
Cyclohexane	50	<1.0	50.9	48.6	102		97		60-140	4.7		20
Methylcyclohexane	50	<1.0	50.6	49.7	101		99		60-140	1.8		20

RPD 0 out of 47 outside limits

Spike Recovery 2 out of 94 outside limits

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

Comments:

8260B Water Volatile
Laboratory Control Sample/Laboratory Control Sample Duplicate Recovery

Lab Name: Northeast Laboratory Services
SDG No. TT101905
Contractor:
Project No.
Case No.
Client No. Tetra Tech
Lab Code

Instrument ID: MS1
GC Column: Restek RTX-VMS, 0.25um ID, 30m

Laboratory control sample name: LCS/LCSD

LCS File ID: B7935
Date Analyzed: 10/28/05
Time Analyzed: 4:50

LCSD File ID: B7936
Date Analyzed: 10/28/05
Time Analyzed: 5:26

Compound	Spike Added ug/L	Blank Concentration ug/L	LCS Concentration ug/L	LCSD Concentration ug/L	LCS % Rec. #	LCSD % Rec. #	QC Limits Recovery	% RPD #	QC Limits RPD
Dichlorodifluoromethane	10	<1.0	5.49	5.39	55	54	60-140	1.8	20
Chloromethane	10	<1.0	6.23	6.15	62	62	60-140	1.3	20
Vinyl Chloride	10	<1.0	7.04	6.92	70	69	60-140	1.7	20
Bromomethane	10	<1.0	9.49	9.56	95	96	60-140	0.7	20
Chloroethane	10	<1.0	12.1	11.4	121	114	60-140	6.1	20
Trichlorofluoromethane	10	<1.0	12.5	13.0	125	130	60-140	4.5	20
Diethyl Ether	10	<1.0	9.51	14.36	95	144 *	60-140	40.6 *	20
Acetone	10	<1.0	8.87	9.06	89	91	60-140	2.1	20
Methyl Acetate	10	<1.0	13.3	12.9	133	129	60-140	3.1	20
1,1-Dichloroetnene	10	<1.0	12.5	10.9	125	109	60-140	13.3	20
NT Iodomethane	10	<1.0	15.2	10.2	152 *	102	60-140	39.2 *	20
Allyl Chloride	10	<1.0	9.08	8.89	91	89	60-140	2.1	20
Carbon Disulfide	10	<1.0	13.0	10.2	130	102	60-140	24.5 *	20
Methylene Chloride	10	<1.0	8.19	8.19	82	82	60-140	0.0	20
Acrylonitrile	10	<1.0	8.85	8.88	89	89	60-140	0.3	20
t-Butyl-Methyl Ether (MTBE	20	<1.0	18.7	18.4	93	92	60-140	1.3	20
trans-1,2-Dichloroethene	10	<1.0	9.27	9.26	93	93	60-140	0.1	20
1,1-Dichloroethane	10	<1.0	9.09	9.05	91	91	60-140	0.4	20
2-Butanone (MEK)	10	<1.0	7.44	8.81	74	88	60-140	16.9	20
Propionitrile	10	<1.0	8.72	7.93	87	79	60-140	9.5	20
2,2-Dichloropropane	10	<1.0	8.43	8.19	84	82	60-140	2.9	20
cis-1,2-Dichloroethene	10	<1.0	9.12	8.92	91	89	60-140	2.2	20
Methacrylonitrile	10	<1.0	9.35	9.16	94	92	60-140	2.1	20
Chloroform	10	<1.0	9.32	9.34	93	93	60-140	0.2	20
Cyclohexane	10	<1.0	10.0	9.37	100	94	60-140	6.7	20
Bromochloromethane	10	<1.0	9.25	8.84	93	88	60-140	4.5	20
Tetrahydrofuran	10	<1.0	9.11	8.81	91	88	60-140	3.3	20
1,1,1-Trichloroethane	10	<1.0	9.43	9.23	94	92	60-140	2.1	20
1-Chlorobutane	10	<1.0	9.10	9.13	91	91	60-140	0.3	20
1,1-Dichloropropene	10	<1.0	9.21	8.96	92	90	60-140	2.8	20
Carbon Tetrachloride	10	<1.0	9.76	9.60	98	96	60-140	1.7	20
1,2-Dichloroethane	10	<1.0	9.20	8.97	92	90	60-140	2.5	20
Benzene	10	<1.0	9.27	9.17	93	92	60-140	1.1	20
Methylcyclohexane	10	<1.0	9.84	9.72	98	97	60-140	1.2	20
Trichloroethene	10	<1.0	9.10	8.98	91	90	60-140	1.3	20
1,2-Dichloropropane	10	<1.0	9.09	8.77	91	88	60-140	3.6	20
Methyl Methacrylate	10	<1.0	9.38	9.38	94	94	60-140	0.0	20
Bromodichloromethane	10	<1.0	8.80	8.59	88	86	60-140	2.4	20
Dibromomethane	10	<1.0	9.24	8.89	92	89	60-140	3.9	20
2-Nitropropane	10	<1.0	8.37	8.06	84	81	60-140	3.8	20
4-Methyl-2-Pentanone (MIE	10	<1.0	8.67	8.43	87	84	60-140	2.8	20
cis-1,3-Dichloropropene	10	<1.0	9.03	8.78	90	88	60-140	2.8	20

8260B Soil Volatile
Laboratory Control Sample/Laboratory Control Sample Duplicate Recovery

Lab Name: Northeast Laboratory Services
SDG No. TT101905
Contractor:
Project No.
Case No.
Client No. Tetra Tech
Lab Code

Instrument ID: MS1
GC Column: Restek RTX-VMS, 0.25um ID, 30m

Laboratory control sample name: SLCS/SLCSD

SLCS File ID: B7964
Date Analyzed: 10/31/05
Time Analyzed: 11:15

SLCSD File ID: B7965
Date Analyzed: 10/31/05
Time Analyzed: 11:51

Compound	Spike Added ug/kg	Blank Concentration ug/kg	LCS Concentration ug/kg	LCSD Concentration ug/kg	LCS % Rec. #	LCSD % Rec. #	QC Limits Recovery	% RPD #	QC Limits RPD
Dichlorodifluoromethane	50	<1.0	29.8	28.8	60	58	60-140	3.5	20
Chloromethane	50	<1.0	55.3	56.6	111	113	60-140	2.3	20
Vinyl Chloride	50	<1.0	53.5	53.1	107	106	60-140	0.7	20
Bromomethane	50	<1.0	42.4	42.0	85	84	60-140	1.0	20
Chloroethane	50	<1.0	26.0	26.2	52	52	60-140	0.6	20
Trichlorofluoromethane	50	<1.0	45.1	45.3	90	91	60-140	0.6	20
Diethyl Ether	50	<1.0	69.4	67.9	139	136	60-140	2.2	20
Acetone	50	<1.0	73.6	73.0	147 *	146 *	60-140	0.8	20
1,1-Dichloroethene	50	<1.0	61.3	61.0	123	122	60-140	0.5	20
Carbon Disulfide	50	<1.0	63.8	63.7	128	127	60-140	0.3	20
Methylene Chloride	50	<1.0	63.2	62.0	126	124	60-140	1.9	20
t-Butyl-Methyl Ether (MTBE	100	<1.0	126.6	126.9	127	127	60-140	0.2	20
trans-1,2-Dichloroethene	50	<1.0	63.5	63.6	127	127	60-140	0.1	20
1,1-Dichloroethane	50	<1.0	89.3	62.3	179 *	125	60-140	35.6 *	20
2-Butanone (MEK)	50	<1.0	91.5	88.1	183 *	176 *	60-140	3.7	20
cis-1,2-Dichloroethene	50	<1.0	67.5	68.4	135	137	60-140	1.2	20
Chloroform	50	<1.0	59.7	58.7	119	117	60-140	1.8	20
Bromochloromethane	50	<1.0	73.6	75.9	147 *	152 *	60-140	3.1	20
1,1,1-Trichloroethane	50	<1.0	54.1	54.1	108	108	60-140	0.0	20
Carbon Tetrachloride	50	<1.0	52.0	51.7	104	103	60-140	0.6	20
1,2-Dichloroethane	50	<1.0	59.7	58.0	119	116	60-140	2.9	20
Benzene	50	<1.0	62.9	62.0	126	124	60-140	1.5	20
Trichloroethene	50	<1.0	46.9	45.2	94	90	60-140	3.8	20
1,2-Dichloropropane	50	<1.0	61.0	60.5	122	121	60-140	0.8	20
Bromodichloromethane	50	<1.0	50.3	48.8	101	98	60-140	3.0	20
4-Methyl-2-Pentanone (MIB	50	<1.0	75.0	69.5	150 *	139	60-140	7.6	20
cis-1,3-Dichloropropene	50	<1.0	56.0	53.6	112	107	60-140	4.5	20
Toluene	50	<1.0	53.6	51.8	107	104	60-140	3.3	20
trans-1,3-Dichloropropene	50	<1.0	57.0	55.2	114	110	60-140	3.3	20
1,1,2-Trichloroethane	50	<1.0	53.1	51.3	106	103	60-140	3.4	20
2-Hexanone	50	<1.0	86.5	80.5	173 *	161 *	60-140	7.2	20
Tetrachloroethene	50	<1.0	45.4	43.0	91	86	60-140	5.6	20
Dibromochloromethane	50	<1.0	47.2	45.6	94	91	60-140	3.4	20
1,2-Dibromoethane	50	<1.0	52.4	49.9	105	100	60-140	4.9	20
1,1,1,2-Tetrachloroethane	50	<1.0	45.5	45.2	91	90	60-140	0.5	20
Ethylbenzene	50	<1.0	53.8	53.6	108	107	60-140	0.4	20
m,p-Xylene	100	<1.0	106.0	106.8	106	107	60-140	0.8	20
o-Xylene	50	<1.0	51.6	51.5	103	103	60-140	0.3	20
Styrene	50	<1.0	52.7	52.5	105	105	60-140	0.4	20
Bromoform	50	<1.0	46.8	45.4	94	91	60-140	3.0	20
1,1,2,2-Tetrachloroethane	50	<1.0	56.1	54.1	112	108	60-140	3.7	20

Compound	Spike Added ug/kg	Blank Concentration ug/kg	LCS Concentration ug/kg	LCSD Concentration ug/kg	LCS % Rec.	#	LCSD % Rec.	#	QC Limits Recovery	% RPD	#	QC Limits RPD
1,3-Dichlorobenzene	50	<1.0	49.2	48.9	98		98		60-140	0.6		20
1,4-Dichlorobenzene	50	<1.0	50.0	49.2	100		98		60-140	1.8		20
1,2-Dichlorobenzene	50	<1.0	49.3	49.0	99		98		60-140	0.5		20
Methyl Acetate	50	<1.0	96.8	94.3	194	*	189	*	60-140	2.6		20
Cyclohexane	50	<1.0	57.7	57.5	115		115		60-140	0.3		20
Methylcyclohexane	50	<1.0	59.7	59.5	119		119		60-140	0.4		20

RPD 1 out of 47 outside limits

Spike Recovery 12 out of 94 outside limits

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

Comments:

8260B Soil Volatile
Laboratory Control Sample/Laboratory Control Sample Duplicate Recovery

Lab Name: Northeast Laboratory Services
SDG No. TT101905
Contractor:
Project No.
Case No.
Client No. Tetra Tech
Lab Code

Instrument ID: MS1
GC Column: Restek RTX-VMS, 0.25um ID, 30m

Laboratory control sample name: SLCS/SLCSD

SLCS File ID: B7984
Date Analyzed: 11/01/05
Time Analyzed: 14:04

SLCSD File ID: B7985
Date Analyzed: 11/1/05
Time Analyzed: 14:47

Compound	Spike Added ug/kg	Blank Concentration ug/kg	LCS Concentration ug/kg	LCSD Concentration ug/kg	LCS % Rec.	#	LCSD % Rec.	#	QC Limits Recovery	% RPD	#	QC Limits RPD
Dichlorodifluoromethane	1000	<100	460	440	46	*	44	*	60-140	4.4		20
Chloromethane	1000	<100	620	470	62		47	*	60-140	27.5	*	20
Vinyl Chloride	1000	<100	560	580	56	*	58	*	60-140	3.5		20
Bromomethane	1000	<100	950	900	95		90		60-140	5.4		20
Chloroethane	1000	<100	340	430	34	*	43	*	60-140	23.4	*	20
Trichlorofluoromethane	1000	<100	850	800	85		80		60-140	6.1		20
Diethyl Ether	1000	<100	760	690	76		69		60-140	9.7		20
Acetone	1000	<100	750	580	75		58		60-140	25.6	*	20
1,1-Dichloroethene	1000	<100	640	620	64		62		60-140	3.2		20
Carbon Disulfide	1000	<100	750	710	75		71		60-140	5.5		20
Methylene Chloride	1000	<100	1060	970	106		97		60-140	8.9		20
t-Butyl-Methyl Ether (MTBE	2000	<100	2440	2220	122		111		60-140	9.4		20
trans-1,2-Dichloroethene	1000	<100	910	910	91		91		60-140	0.0		20
1,1-Dichloroethane	1000	<100	900	880	90		88		60-140	2.2		20
2-Butanone (MEK)	1000	<100	1050	910	105		91		60-140	14.3		20
cis-1,2-Dichloroethene	1000	<100	910	870	91		87		60-140	4.5		20
Chloroform	1000	<100	990	930	99		93		60-140	6.3		20
Bromochloromethane	1000	<100	1120	1030	112		103		60-140	8.4		20
1,1,1-Trichloroethane	1000	<100	960	930	96		93		60-140	3.2		20
Carbon Tetrachloride	1000	<100	980	930	98		93		60-140	5.2		20
1,2-Dichloroethane	1000	<100	1060	980	106		98		60-140	7.8		20
Benzene	1000	<100	950	910	95		91		60-140	4.3		20
Trichloroethene	1000	<100	1020	950	102		95		60-140	7.1		20
1,2-Dichloropropane	1000	<100	1000	940	100		94		60-140	6.2		20
Bromodichloromethane	1000	<100	1080	1010	108		101		60-140	6.7		20
4-Methyl-2-Pentanone (MIE	1000	<100	1200	1010	120		101		60-140	17.2		20
cis-1,3-Dichloropropene	1000	<100	1120	1040	112		104		60-140	7.4		20
Toluene	1000	<100	1060	1000	106		100		60-140	5.8		20
trans-1,3-Dichloropropene	1000	<100	1270	1140	127		114		60-140	10.8		20
1,1,2-Trichloroethane	1000	<100	1230	1030	123		103		60-140	17.7		20
2-Hexanone	1000	<100	1200	910	120		91		60-140	27.5	*	20
Tetrachloroethene	1000	<100	1050	1000	105		100		60-140	4.9		20
Dibromochloromethane	1000	<100	1250	1120	125		112		60-140	11.0		20
1,2-Dibromoethane	1000	<100	1210	1090	121		109		60-140	10.4		20
1,1,1,2-Tetrachloroethane	1000	<100	1030	970	103		97		60-140	6.0		20
Ethylbenzene	1000	<100	980	930	98		93		60-140	5.2		20
m,p-Xylene	2000	<100	1960	1830	98		92		60-140	6.9		20
o-Xylene	1000	<100	1010	970	101		97		60-140	4.0		20
Styrene	1000	<100	1060	970	106		97		60-140	8.9		20
Bromoform	1000	<100	1200	1040	120		104		60-140	14.3		20
1,1,2,2-Tetrachloroethane	1000	<100	1250	1030	125		103		60-140	19.3		20

Compound	Spike Added ug/kg	Blank Concentration ug/kg	LCS Concentration ug/kg	LCSD Concentration ug/kg	LCS % Rec. #	LCSD % Rec. #	QC Limits Recovery	% RPD #	QC Limits RPD
1,3-Dichlorobenzene	1000	<100	1130	1040	113	104	60-140	8.3	20
1,4-Dichlorobenzene	1000	<100	1220	1030	122	103	60-140	16.9	20
1,2-Dichlorobenzene	1000	<100	1340	1090	134	109	60-140	20.6	20
Methyl Acetate	1000	<100	1390	1430	139	143	60-140	2.8	20
Cyclohexane	1000	<100	1020	1010	102	101	60-140	1.0	20
Methylcyclohexane	1000	<100	1030	1040	103	104	60-140	1.0	20

RPD 5 out of 47 outside limits

Spike Recovery 8 out of 94 outside limits

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

Comments: