N00158.AR.000221
NAS WILLOW GROVE
5090.3a

TETRA TECH NUS

PHIL-19654

TO:	**RUSS TURNER**	**DATE:**	**NOVEMBER 17, 2005**
FROM:	**MEGAN N. RITCHIE**	**COPIES:**	**FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOCS**
NAS JRB WILLOW GROVE, PENNSYLVANIA
SDG NO. TT101805

SAMPLES: **9/Solid/**

01SB51-0405	01SB52-1011	05SB53-1415
01SB51-0910	DUP-01	05SB52-0102
01SB52-0405	05SB53-1011	05SB52-1011

3/Aqueous/

TB10170501	FB10170501	RB10170501

OVERVIEW

The sample set for NAS JRB Willow Grove Sites 1 and 5 – Willow Grove, PA, SDG TT101805 consists of nine solid environmental samples (designated 01SB-, 05SB-, and DUP-) and three field quality control (QC) blanks (designated FB-, RB-, and TB-). One field duplicate pair (01SB52-1011 and DUP-01) was included in this sample set. Sample 01SB52-0405 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 17, 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*	1.9 ug/Kg	19 ug/Kg
Methylene Chloride	5.6 ug/Kg	56 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 initial calibration percent relative standard deviation (%RSD) for methylene chloride exceeded the QC criteria of 50%. The non-detected results for methylene chloride in the associated aqueous QC blank samples 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 05SB52-0102 was qualified as estimated (J).
- The continuing calibration percent difference (%D) for 2-butanone exceeded the QC criteria of 25%. The positive result for 2-butanone in sample 05SB53-1415 was qualified as estimated (J).
- The internal standard area recoveries for chlorobenzene-d5 and 1,4-dichlorobenzene-d4 were below the lower limits of the QC criteria for the original and reanalysis (both undiluted) of sample 05SB52-0102. The positive and non-detected results associated with these internal standards were qualified as estimated (J/UJ) for the original analysis, which was the analysis selected to use by the data validator.
- Positive results at concentrations less than the sample quantitation limits (QLs) were qualified as estimated (J).

NOTES

Sample 05SB52-0102 was diluted (analyzed using the medium-level procedure) for xylenes, ethylbenzene, methylcyclohexane, 1,1-dichloroethane, and 1,1,1-trichloroethane compounds because these compounds were above the upper calibration range in the initial analysis. No QC problems were noted in the diluted analysis, which was used for reporting the aforementioned compounds. 1,1-Dichloroethene was also reported from the medium-level analysis because the concentration detected was an order of magnitude greater than the initial analysis which is consistent with the other substances that also yielded higher medium-level results. Better extraction efficiency is often observed with methanol extraction compared to the aqueous heated purge of soil samples.

The system monitoring compound (SMC) recoveries for 1,2-Dichloroethane-d4 and 4-bromofluorobenzene exceeded the upper limits of the QC criteria for the reanalysis of sample 05SB52-0102. No action was taken because the results from the reanalysis were not used.

The MS/MSD recoveries were outside QC criteria for trichlorofluoromethane, 1,1-dichloroethene, carbon disulfide, MTBE, trans-1,2-dichloroethene, 1,1-dichloroethane, and styrene. The MS/MSD relative percent difference (RPD) for styrene exceeded QC criteria. No qualifications were made on MS/MSD data alone.

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

Field duplicate pair 01SB52-1011 and DUP-01 exhibited results within QC criteria. A comparison of the results is located in Appendix C.

EXECUTIVE SUMMARY

Laboratory Performance: Methylene chloride was detected in the laboratory blanks. One compound exceeded initial calibration RSD criteria. Two compounds exceeded continuing calibration %D criteria. One sample exhibited system monitoring compounds that exceeded QC criteria. One sample exhibited internal standard areas below the lower QC limit. Several compounds exceeded LCS/LCSD QC criteria.

Other Factors Affecting Data Quality: Acetone was detected in two field QC blanks. Seven compounds exhibited MS/MSD recoveries and RPDs that were outside 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

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

APPENDIX A

Qualified Analytical Results

PROJ_NO: 2192

SDG: TT101805 MEDIA: SOIL DATA FRACTION: OV

nsample	01SB51-0405
samp_date	10/17/2005
lab_id	AH12550
qc_type	NM
units	UG/KG
Pct_Solids	84.0
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	10	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	2.8	J	P
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	2.8	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	01SB51-0405
samp_date	10/17/2005
lab_id	AH12550
qc_type	NM
units	UG/KG
Pct_Solids	84.0
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	6.6	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	

nsample	01SB51-0910
samp_date	10/17/2005
lab_id	AH12551
qc_type	NM
units	UG/KG
Pct_Solids	92.0
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	2.5	J	P
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	1	J	P
ACETONE	2.4	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	

PROJ_NO: 2192

SDG: TT101805 MEDIA: SOIL DATA FRACTION: OV

nsample	01SB51-0910
samp_date	10/17/2005
lab_id	AH12551
qc_type	NM
units	UG/KG
Pct_Solids	92.0
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	7.1	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	01SB52-0405
samp_date	10/17/2005
lab_id	AH12553
qc_type	NM
units	UG/KG
Pct_Solids	85.0
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	10	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	2.1	J	P
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	0.71	J	P
ACETONE	2.2	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	01SB52-0405
samp_date	10/17/2005
lab_id	AH12553
qc_type	NM
units	UG/KG
Pct_Solids	85.0
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	

PROJ_NO: 2192

SDG: TT101805 MEDIA: SOIL DATA FRACTION: OV

nsample	01SB52-1011
samp_date	10/17/2005
lab_id	AH12554
qc_type	NM
units	UG/KG
Pct_Solids	90.0
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	0.51	J	P
ACETONE	1.4	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	1	U	

nsample	01SB52-1011
samp_date	10/17/2005
lab_id	AH12554
qc_type	NM
units	UG/KG
Pct_Solids	90.0
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	6.2	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	10	U	

nsample	05SB52-0102
samp_date	10/17/2005
lab_id	AH12559
qc_type	NM
units	UG/KG
Pct_Solids	88.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,2,2-TETRACHLOROETHANE	1	UJ	N
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	N
1,2-DIBROMO-3-CHLOROPROPANE	1	UJ	N
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	10	UJ	N
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	2	U	
1,3-DICHLOROBENZENE	10	UJ	N
1,4-DICHLOROBENZENE	1	UJ	N
2-BUTANONE	10	U	
2-HEXANONE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	47	J	C
BENZENE	20		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	5	UJ	N
BROMOMETHANE	2	U	
CARBON DISULFIDE	1.3	J	P
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	10	UJ	N
CHLORODIBROMOMETHANE	2	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	0.61	J	P
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	130		
DICHLORODIFLUOROMETHANE	10	U	
ISOPROPYLBENZENE	10	UJ	N
METHYL ACETATE	10	U	

PROJ_NO: 2192

SDG: TT101805 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB52-0102
samp_date	10/17/2005
lab_id	AH12559
qc_type	NM
units	UG/KG
Pct_Solids	88.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	7.4	B	A
STYRENE	10	UJ	N
TETRACHLOROETHENE	11		
TOLUENE	17		
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	6		
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	1	U	

nsample	05SB52-0102DL
samp_date	10/17/2005
lab_id	AH12559
qc_type	NM
units	UG/KG
Pct_Solids	88.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	7300		
1,1-DICHLOROETHANE	290	J	P
1,1-DICHLOROETHENE	170	J	P
ETHYLBENZENE	1600		
METHYL CYCLOHEXANE	4500		
TOTAL XYLENES	16000		

nsample	05SB52-1011
samp_date	10/17/2005
lab_id	AH12560
qc_type	NM
units	UG/KG
Pct_Solids	87.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	11	U	
1,1,2,2-TETRACHLOROETHANE	1.1	U	
1,1,2-TRICHLOROETHANE	1.2		
1,1,2-TRICHLOROTRIFLUOROETHANE	11	U	
1,1-DICHLOROETHANE	1.1	J	P
1,1-DICHLOROETHENE	11	U	
1,2,4-TRICHLOROBENZENE	11	U	
1,2-DIBROMO-3-CHLOROPROPANE	1.1	U	
1,2-DIBROMOETHANE	1.1	U	
1,2-DICHLOROBENZENE	11	U	
1,2-DICHLOROETHANE	1.1	U	
1,2-DICHLOROPROPANE	2.2	U	
1,3-DICHLOROBENZENE	11	U	
1,4-DICHLOROBENZENE	1.1	U	
2-BUTANONE	11	U	
2-HEXANONE	11	U	
4-METHYL-2-PENTANONE	3.8	J	P
ACETONE	4.7	B	B
BENZENE	2.2	U	
BROMODICHLOROMETHANE	1.1	U	
BROMOFORM	5.5	U	
BROMOMETHANE	2.2	U	
CARBON DISULFIDE	11	U	
CARBON TETRACHLORIDE	1.1	U	
CHLOROBENZENE	11	U	
CHLORODIBROMOMETHANE	2.2	U	
CHLOROETHANE	2.2	U	
CHLOROFORM	1.1	U	
CHLOROMETHANE	11	U	
CIS-1,2-DICHLOROETHENE	11	U	
CIS-1,3-DICHLOROPROPENE	11	U	
CYCLOHEXANE	11	U	

PROJ_NO: 2192

SDG: TT101805 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB52-1011
samp_date	10/17/2005
lab_id	AH12560
qc_type	NM
units	UG/KG
Pct_Solids	87.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	11	U	
ETHYLBENZENE	11	U	
ISOPROPYLBENZENE	11	U	
METHYL ACETATE	11	U	
METHYL CYCLOHEXANE	11	U	
METHYL TERT-BUTYL ETHER	1.1	U	
METHYLENE CHLORIDE	6.7	B	A
STYRENE	11	U	
TETRACHLOROETHENE	2.2	U	
TOLUENE	11	U	
TOTAL XYLENES	11	U	
TRANS-1,2-DICHLOROETHENE	11	U	
TRANS-1,3-DICHLOROPROPENE	11	U	
TRICHLOROETHENE	1.1	U	
TRICHLOROFLUOROMETHANE	11	U	
VINYL CHLORIDE	11	U	

nsample	05SB53-1011
samp_date	10/17/2005
lab_id	AH12557
qc_type	NM
units	UG/KG
Pct_Solids	84.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	29		
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	120		
1,1-DICHLOROETHENE	9.6	J	P
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	6.5		
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	45		
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	12		

nsample	05SB53-1011
samp_date	10/17/2005
lab_id	AH12557
qc_type	NM
units	UG/KG
Pct_Solids	84.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	5.9	J	P
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	45		
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	6.3	B	A
STYRENE	10	U	
TETRACHLOROETHENE	2.5		
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	4.4		
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

PROJ_NO: 2192

SDG: TT101805 MEDIA: SOIL DATA FRACTION: OV

nsample	05SB53-1415
samp_date	10/17/2005
lab_id	AH12558
qc_type	NM
units	UG/KG
Pct_Solids	84.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	6.7	J	P
1,1,2,2-TETRACHLOROETHANE	1.1	U	
1,1,2-TRICHLOROETHANE	0.9	J	P
1,1,2-TRICHLOROTRIFLUOROETHANE	11	U	
1,1-DICHLOROETHANE	48		
1,1-DICHLOROETHENE	2.4	J	P
1,2,4-TRICHLOROBENZENE	11	U	
1,2-DIBROMO-3-CHLOROPROPANE	1.1	U	
1,2-DIBROMOETHANE	1.1	U	
1,2-DICHLOROBENZENE	11	U	
1,2-DICHLOROETHANE	1.1	U	
1,2-DICHLOROPROPANE	2.2	U	
1,3-DICHLOROBENZENE	11	U	
1,4-DICHLOROBENZENE	1.1	U	
2-BUTANONE	1.7	J	CP
2-HEXANONE	11	U	
4-METHYL-2-PENTANONE	11	U	
ACETONE	6.3	B	B
BENZENE	1.9	J	P
BROMODICHLOROMETHANE	1.1	U	
BROMOFORM	5.5	U	
BROMOMETHANE	2.2	U	
CARBON DISULFIDE	11	U	
CARBON TETRACHLORIDE	1.1	U	
CHLOROBENZENE	11	U	
CHLORODIBROMOMETHANE	2.1	U	
CHLOROETHANE	2.2	U	
CHLOROFORM	1.1	U	
CHLOROMETHANE	11	U	
CIS-1,2-DICHLOROETHENE	16		
CIS-1,3-DICHLOROPROPENE	11	U	
CYCLOHEXANE	1.1	J	P

nsample	05SB53-1415
samp_date	10/17/2005
lab_id	AH12558
qc_type	NM
units	UG/KG
Pct_Solids	84.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	11	U	
ETHYLBENZENE	11	U	
ISOPROPYLBENZENE	0.6	J	P
METHYL ACETATE	11	U	
METHYL CYCLOHEXANE	1.7	J	P
METHYL TERT-BUTYL ETHER	1.1	U	
METHYLENE CHLORIDE	6.4	B	A
STYRENE	11	U	
TETRACHLOROETHENE	2.2	U	
TOLUENE	11	U	
TOTAL XYLENES	11	U	
TRANS-1,2-DICHLOROETHENE	11	U	
TRANS-1,3-DICHLOROPROPENE	11	U	
TRICHLOROETHENE	1.1		
TRICHLOROFLUOROMETHANE	11	U	
VINYL CHLORIDE	1.1	U	

nsample	DUP-01
samp_date	10/17/2005
lab_id	AH12555
qc_type	NM
units	UG/KG
Pct_Solids	89.0
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	0.77	J	P
ACETONE	3.6	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	

PROJ_NO: 2192

SDG: TT101805 MEDIA: SOIL DATA FRACTION: OV

nsample	DUP-01
samp_date	10/17/2005
lab_id	AH12555
qc_type	NM
units	UG/KG
Pct_Solids	89.0
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	0.45	J	P
METHYLENE CHLORIDE	6.2	B	A
STYRENE	0.65	J	P
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: TT101805 MEDIA: WATER DATA FRACTION: OV

nsample	FB10170501
samp_date	10/17/2005
lab_id	AH12552
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	10	U	
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	FB10170501
samp_date	10/17/2005
lab_id	AH12552
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	UJ	C
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	RB10170501
samp_date	10/17/2005
lab_id	AH12556
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	1.9	J	P
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: TT101805 MEDIA: WATER DATA FRACTION: OV

nsample	RB10170501
samp_date	10/17/2005
lab_id	AH12556
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	UJ	C
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	TB10170501
samp_date	10/17/2005
lab_id	AH12549
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	1.2	J	P
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	TB10170501
samp_date	10/17/2005
lab_id	AH12549
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	UJ	C
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: AH12549
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 08:55 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: T-BLANK
Sample Description: TB10170501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
Acetone	1.2	J	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,1,1-Trichloroethane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
2-Butanone	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Carbon Disulfide	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Cyclohexane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,1,2,2-Tetrachloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	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	6:38	NMI
1,1,2-Trichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,1-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,1-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,2,4-Trichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,2-Dibromo-2-chloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,2-Dibromoethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,2-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,2-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,2-Dichloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,3-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,4-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
2-Hexanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
4-Methyl-2-pentanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Benzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Bromodichloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Bromoform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Bromomethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Carbon Tetrachloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Chlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Chloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Chloroform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Chloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
cis-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
cis-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Dibromochloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	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: AH12549
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 08:55 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: T-BLANK
Sample Description: TB10170501
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	6:38	NMI
Ethylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Isopropylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Methyl Acetate	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Methyl tert-Butyl Ether	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Methylcyclohexane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Methylene Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Styrene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Tetrachloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Toluene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
trans-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Trichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Trichlorofluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Vinyl Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Xylenes (Total)	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
4-Bromofluorobenzene (Surrogate)	90		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
1,2-Dichloroethane-d4 (Surrogate)	93		%	70	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	NMI
Toluene-d8 (Surrogate)	93		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	6:38	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
PITTSBURGH PA 15220

Lab ID Number: AH12550
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 10:38 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB51-0405
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	10/26/2005 18:12	10/26/2005 23:13	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,1,2-Trichloroethane	10	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/26/2005 23:13	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: AH12550
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 10:38 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB51-0405
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	10/26/2005	18:12	10/26/2005	23:13	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Toluene-d8 (Surrogate)	100		%	61	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
1,2-Dichloroethane-d4 (Surrogate)	126		%	61	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
2-Butanone	2.8	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Acetone	2.8	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
Methylene Chloride	6.6	B	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	NMI
4-Bromofluorobenzene (Surrogate)	99		%	68	EPA 8260B	10/26/2005	18:12	10/26/2005	23:13	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.
This soil sample was extruded on October 18, 3:45 PM.

Solids, Percent	84		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

0009

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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: AH12551
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 11:02 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB51-0910
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	10/26/2005	18:12	10/26/2005	23:51	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
4-Methyl-2-pentanone	1.0	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	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: AH12551
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 11:02 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB51-0910
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	10/26/2005	18:12	10/26/2005	23:51	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Toluene-d8 (Surrogate)	100		%	61	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,2-Dichloroethane-d4 (Surrogate)	133		%	61	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Acetone	2.4	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
2-Butanone	2.5	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
Methylene Chloride	7.1	B	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	NMI
4-Bromofluorobenzene (Surrogate)	99		%	68	EPA 8260B	10/26/2005	18:12	10/26/2005	23:51	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.
This soil sample was extruded on October 18, 3:45 PM.

Solids, Percent	92		%	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: AH12552
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:15 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: FB10170501
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 7:14	NMI
2-Butanone	10	U	ug/L	10	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Acetone	10	U	ug/L	10	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Carbon Disulfide	10	U	ug/L	10	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Cyclohexane	10	U	ug/L	10	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,1,2,2-Tetrachloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	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 7:14	NMI
1,1,2-Trichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,1-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,1-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,2,4-Trichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,2-Dibromo-2-chloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,2-Dibromoethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,2-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,2-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,2-Dichloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,3-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
1,4-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
2-Hexanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
4-Methyl-2-pentanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Benzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Bromodichloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Bromoform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Bromomethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Carbon Tetrachloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Chlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Chloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Chloroform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Chloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
cis-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
cis-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI
Dibromochloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005 3:02	10/28/2005 7:14	NMI

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ANALYSIS REPORT

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

Lab ID Number: AH12552
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:15 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: FB10170501
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	7:14	NMI
Ethylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Isopropylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Methyl Acetate	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Methyl tert-Butyl Ether	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Methylcyclohexane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Methylene Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Styrene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Tetrachloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Toluene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
trans-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Trichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Trichlorofluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Vinyl Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Xylenes (Total)	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
4-Bromofluorobenzene (Surrogate)	89		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
Toluene-d8 (Surrogate)	92		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI
1,2-Dichloroethane-d4 (Surrogate)	97		%	70	EPA 8260B	10/28/2005	3:02	10/28/2005	7:14	NMI

** 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: AH12553
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 11:50 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB52-0405
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
4-Methyl-2-pentanone	0.71	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,1,2-Trichloroethane	10	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	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: AH12553
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 11:50 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB52-0405
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	10/26/2005	18:12	10/27/2005	4:10	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Toluene-d8 (Surrogate)	100		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,2-Dichloroethane-d4 (Surrogate)	124		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
2-Butanone	2.1	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Acetone	2.2	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
Methylene Chloride	6.7	B	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	NMI
4-Bromofluorobenzene (Surrogate)	95		%	68	EPA 8260B	10/26/2005	18:12	10/27/2005	4:10	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.
This soil sample was extruded on October 18, 3:45 PM.

Solids, Percent	85		%	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: AH12554
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:06 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB52-1011
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time	Analysis Date/Time	Analyst
EPA 8260-Tetra Tech								
4-Methyl-2-pentanone	0.51	J	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Cyclohexane	1.0	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Acetone	1.4	J	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 0:30	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
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PITTSBURGH PA 15220

Lab ID Number: AH12554
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:06 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 01SB52-1011
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	10/26/2005	18:12	10/27/2005	0:30	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Toluene-d8 (Surrogate)	100		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
4-Bromofluorobenzene (Surrogate)	100		%	68	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
1,2-Dichloroethane-d4 (Surrogate)	133		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	NMI
Methylene Chloride	6.2	B	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	0:30	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.
This soil sample was extruded on October 18, 3:45 PM.

Solids, Percent	90		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

0021

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: AH12555
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:00 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: DUP-01
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
Methyl tert-Butyl Ether	0.45	J	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Styrene	0.65	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
4-Methyl-2-pentanone	0.77	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Trichloroethene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,1,1-Trichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,1-Dichloroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,1-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Cyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	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: AH12555
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:00 AM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: DUP-01
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	10/26/2005	18:12	10/27/2005	1:08	NMI
Methylcyclohexane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Toluene-d8 (Surrogate)	102		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,2-Dichloroethane-d4 (Surrogate)	135		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Benzene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Tetrachloroethene	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Acetone	3.6	J	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
Methylene Chloride	6.2	B	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	NMI
4-Bromofluorobenzene (Surrogate)	98		%	68	EPA 8260B	10/26/2005	18:12	10/27/2005	1:08	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 4.8 ug/kg.
The "U" qualifier indicates the compound was analyzed for but not detected.
This soil sample was extruded on October 18, 3:45 PM.

Solids, Percent	89		%	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: AH12556
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:30 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: RB10170501
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
Acetone	1.9	J	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,1,1-Trichloroethane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
2-Butanone	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Carbon Disulfide	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Cyclohexane	10	U	ug/L	10	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,1,2,2-Tetrachloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	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	11:45	NMI
1,1,2-Trichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,1-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,1-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,2,4-Trichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,2-Dibromo-2-chloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,2-Dibromoethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,2-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,2-Dichloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,2-Dichloropropane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,3-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,4-Dichlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
2-Hexanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
4-Methyl-2-pentanone	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Benzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Bromodichloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Bromoform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Bromomethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Carbon Tetrachloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Chlorobenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Chloroethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Chloroform	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Chloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
cis-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
cis-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Dibromochloromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	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: AH12556
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 12:30 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: WATER
Sample Description: RB10170501
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	11:45	NMI
Ethylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Isopropylbenzene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Methyl Acetate	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Methyl tert-Butyl Ether	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Methylcyclohexane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Methylene Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Styrene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Tetrachloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Toluene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
trans-1,3-Dichloropropene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Trichloroethene	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Trichlorofluoromethane	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Vinyl Chloride	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Xylenes (Total)	2.0	U	ug/L	2.0	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
1,2-Dichloroethane-d4 (Surrogate)	88		%	70	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
4-Bromofluorobenzene (Surrogate)	89		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	NMI
Toluene-d8 (Surrogate)	95		%	82	EPA 8260B	10/28/2005	3:02	10/28/2005	11:45	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
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661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12557
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 01:33 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 05SB53-1011
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	10/26/2005 18:12	10/27/2005 1:46	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,1,2-Trichloroethane	10	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Acetone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Carbon Disulfide	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Ethylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Toluene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Xylenes (Total)	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	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: AH12557
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 01:33 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 05SB53-1011
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time	Analysis Date/Time	Analyst
Toluene-d8 (Surrogate)	102		%	61	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Cyclohexane	12		ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,1-Dichloroethane	120		ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,2-Dichloroethane-d4 (Surrogate)	130		%	61	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Tetrachloroethene	2.5		ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,1,1-Trichloroethane	29		ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Trichloroethene	4.4		ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
cis-1,2-Dichloroethene	45		ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Methylcyclohexane	45		ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Isopropylbenzene	5.9	J	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Methylene Chloride	6.3	B	ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
Benzene	6.5		ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
1,1-Dichloroethene	9.6	J	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	NMI
4-Bromofluorobenzene (Surrogate)	99		%	68	EPA 8260B	10/26/2005 18:12	10/27/2005 1:46	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.
This soil sample was extruded on October 18, 3:45 PM.

Solids, Percent	84		%	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: AH12558
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 01:55 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 05SB53-1415
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
EPA 8260-Tetra Tech										
Isopropylbenzene	0.60	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,1,2-Trichloroethane	0.90	J	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,1,2,2-Tetrachloroethane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,2-Dibromo-2-chloropropane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,2-Dibromoethane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,2-Dichloroethane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,4-Dichlorobenzene	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Bromodichloromethane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Carbon Tetrachloride	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Chloroform	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Methyl tert-Butyl Ether	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Trichloroethene	1.1		ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Vinyl Chloride	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Cyclohexane	1.1	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
2-Butanone	1.7	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Methylcyclohexane	1.7	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Benzene	1.9	J	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,2,4-Trichlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,2-Dichlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,3-Dichlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
2-Hexanone	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
4-Methyl-2-pentanone	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Carbon Disulfide	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Chlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Chloromethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
cis-1,3-Dichloropropene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Dichlorodifluoromethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Ethylbenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Methyl Acetate	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Styrene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Toluene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	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: AH12558
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 01:55 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 05SB53-1415
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
trans-1,2-Dichloroethene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
trans-1,3-Dichloropropene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Trichlorofluoromethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Xylenes (Total)	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,2-Dichloroethane-d4 (Surrogate)	116		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
cis-1,2-Dichloroethene	16		ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Dibromochloromethane	2.1	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,2-Dichloropropane	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Bromomethane	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Chloroethane	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Tetrachloroethene	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,1-Dichloroethene	2.4	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,1-Dichloroethane	48		ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Bromoform	5.5	U	ug/Kg	5.5	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Acetone	6.3	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Methylene Chloride	6.4	B	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
1,1,1-Trichloroethane	6.7	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
Toluene-d8 (Surrogate)	92		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	NMI
4-Bromofluorobenzene (Surrogate)	92		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	19:10	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 18 at 3:45 PM.

Solids, Percent	84		%	0.01	SM 2540G	10/24/2005	15:17	10/24/2005	15:17	ELA

0055

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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: AH12559
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:20 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOLID
Sample Description: 05SB52-0102
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time	Analysis Date/Time	Analyst
EPA 8260-Tetra Tech								
cis-1,2-Dichloroethene	0.61	J	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,1,2-Trichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Vinyl Chloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Carbon Disulfide	1.3	J	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
Tetrachloroethene	11		ug/Kg	2.0	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	NMI
4-Bromofluorobenzene (Surrogate)	119		%	68	EPA 8260B	10/26/2005 18:12	10/27/2005 2:55	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: AH12559
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:20 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOLID
Sample Description: 05SB52-0102
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Cyclohexane	130		ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
1,2-Dichloroethane-d4 (Surrogate)	155		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Toluene	17		ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
1,1-Dichloroethene	20		ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Benzene	20		ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Xylenes (Total)	2000	E	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Ethylbenzene	220	E	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
1,1-Dichloroethane	300	E	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
1,1,1-Trichloroethane	3600	E	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Acetone	47		ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Trichloroethene	6.0		ug/Kg	1.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Methylcyclohexane	670	E	ug/Kg	10	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Methylene Chloride	7.4	B	ug/Kg	2.0	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI
Toluene-d8 (Surrogate)	77		%	61	EPA 8260B	10/26/2005	18:12	10/27/2005	2:55	NMI

* *The "E" value denotes an estimated concentration. The calculated value for this compound was above the calibration range of the curve.*
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 18, 2005 4:00 PM.

EPA 8260-Tetra Tech-Dilution

1,2-Dichloropropane	100	U	ug/Kg	100	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Benzene	100	U	ug/Kg	100	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Bromomethane	100	U	ug/Kg	100	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Chloroethane	100	U	ug/Kg	100	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Dibromochloromethane	100	U	ug/Kg	100	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Methylene Chloride	100	U	ug/Kg	100	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
4-Bromofluorobenzene (Surrogate)	113		%	80	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Tetrachloroethene	120		ug/Kg	100	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Ethylbenzene	1600		ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	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: AH12559
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:20 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOLID
Sample Description: 05SB52-0102
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Xylenes (Total)	16000		ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,1-Dichloroethene	170	J	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Bromoform	250	U	ug/Kg	250	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,1-Dichloroethane	290	J	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Methylcyclohexane	4500		ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,1,2,2-Tetrachloroethane	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,1,2-Trichloroethane	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,2-Dibromo-2-chloropropane	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,2-Dibromoethane	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,2-Dichloroethane	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,4-Dichlorobenzene	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Bromodichloromethane	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Carbon Tetrachloride	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Chloroform	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Methyl tert-Butyl Ether	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Trichloroethene	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Vinyl Chloride	50	U	ug/Kg	50	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,2,4-Trichlorobenzene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,2-Dichlorobenzene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,3-Dichlorobenzene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
2-Butanone	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
2-Hexanone	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
4-Methyl-2-pentanone	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Acetone	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Carbon Disulfide	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Chlorobenzene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Chloromethane	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
cis-1,2-Dichloroethene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
cis-1,3-Dichloropropene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Dichlorodifluoromethane	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Isopropylbenzene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Methyl Acetate	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	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: AH12559
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:20 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOLID
Sample Description: 05SB52-0102
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Styrene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Toluene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
trans-1,2-Dichloroethene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
trans-1,3-Dichloropropene	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Trichlorofluoromethane	500	U	ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Cyclohexane	710		ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,1,1-Trichloroethane	7300		ug/Kg	500	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
1,2-Dichloroethane-d4 (Surrogate)	83		%	83	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	NMI
Toluene-d8 (Surrogate)	92		%	70	EPA 8260B	11/01/2005	8:38	11/01/2005	18:54	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 of this sample was used for this analysis.
This sample was extruded on October 18, 2005 4:00 PM.
Due to laboratory error, this diluted sample was analyzed one day out of hold time.

EPA 8260-Tetra Tech-Reanalysis

1,1,2,2-Tetrachloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,2-Dibromo-2-chloropropane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,2-Dibromoethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,2-Dichloroethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,4-Dichlorobenzene	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Bromodichloromethane	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Carbon Tetrachloride	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Chloroform	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Methyl tert-Butyl Ether	1.0	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,1,2-Trichloroethane	10	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Vinyl Chloride	10	U	ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,2,4-Trichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,2-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,3-Dichlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
2-Butanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
2-Hexanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
4-Methyl-2-pentanone	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Chlorobenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI

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ANALYSIS REPORT

Attention: AMY THOMSON
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Lab ID Number: AH12559
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:20 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOLID
Sample Description: 05SB52-0102
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Chloromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
cis-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
cis-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Dichlorodifluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Isopropylbenzene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Methyl Acetate	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Styrene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
trans-1,2-Dichloroethene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
trans-1,3-Dichloropropene	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Trichlorofluoromethane	10	U	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Cyclohexane	100		ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Acetone	150		ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Tetrachloroethene	16		ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,2-Dichloroethane-d4 (Surrogate)	160		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
4-Bromofluorobenzene (Surrogate)	175		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,1-Dichloroethene	18		ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Benzene	18		ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,2-Dichloropropane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Bromomethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Chloroethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Dibromochloromethane	2.0	U	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Carbon Disulfide	2.9	J	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Toluene	21		ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Ethylbenzene	220	E	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Xylenes (Total)	2600	E	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,1-Dichloroethane	380	E	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
1,1,1-Trichloroethane	4700	E	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Bromoform	5.0	U	ug/Kg	5.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Toluene-d8 (Surrogate)	70		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Trichloroethene	8.2		ug/Kg	1.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Methylene Chloride	8.2	B	ug/Kg	2.0	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI
Methylcyclohexane	830	E	ug/Kg	10	EPA 8260B	10/27/2005	8:59	10/27/2005	19:48	NMI

0039

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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: AH12559
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:20 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 11/02/2005

Sample Matrix: SOLID
Sample Description: 05SB52-0102
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time	Analysis Date/Time	Analyst
* *The "E" value denotes an estimated concentration. The calculated value for this compound was above the calibration range of the curve.* *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 18, 2005 4:00 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
TETRA TECH NUS INC
FOSTER PLAZA 7
661 ANDERSEN DR
PITTSBURGH PA 15220

Lab ID Number: AH12560
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:54 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 05SB52-1011
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	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,2-Dibromo-2-chloropropane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,2-Dibromoethane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,2-Dichloroethane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,4-Dichlorobenzene	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Bromodichloromethane	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Carbon Tetrachloride	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Chloroform	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Methyl tert-Butyl Ether	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Trichloroethene	1.1	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,1-Dichloroethane	1.1	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,1,2-Trichloroethane	1.2		ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,2-Dichloroethane-d4 (Surrogate)	105		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Vinyl Chloride	11	U	ug/Kg	1.1	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,1,1-Trichloroethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,1-Dichloroethene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,2,4-Trichlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,2-Dichlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,3-Dichlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
2-Butanone	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
2-Hexanone	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Carbon Disulfide	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Chlorobenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Chloromethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
cis-1,2-Dichloroethene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
cis-1,3-Dichloropropene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Cyclohexane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Dichlorodifluoromethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Ethylbenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Isopropylbenzene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Methyl Acetate	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	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: AH12560
Project Number: NASJRB Willow Grove
P.O. Number: 2192
Date Collected: 10/17/2005 02:54 PM
DateReceived: 10/18/2005 11:00 AM
Date Reported: 10/31/2005

Sample Matrix: SOLID
Sample Description: 05SB52-1011
Sample Type: Grab

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time		Analyst
Methylcyclohexane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Styrene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Toluene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
trans-1,2-Dichloroethene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
trans-1,3-Dichloropropene	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Trichlorofluoromethane	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Xylenes (Total)	11	U	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
1,2-Dichloropropane	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Benzene	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Bromomethane	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Chloroethane	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Dibromochloromethane	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Tetrachloroethene	2.2	U	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
4-Methyl-2-pentanone	3.8	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Acetone	4.7	J	ug/Kg	11	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Bromoform	5.5	U	ug/Kg	5.5	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Methylene Chloride	6.7	B	ug/Kg	2.2	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
4-Bromofluorobenzene (Surrogate)	81		%	68	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	NMI
Toluene-d8 (Surrogate)	82		%	61	EPA 8260B	10/27/2005	8:59	10/27/2005	18:33	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 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 18 at 3:45 PM.

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

APPENDIX C

Support Documentation

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER PAGE ____ OF ____

PROJECT NO. 2192	SITE NAME: NASJRB Willow Grove	PROJECT MANAGER AND PHONE NUMBER: Russ Turner (610) 491-9688	LABORATORY NAME AND CONTACT: Northeast Laboratory Services
SAMPLERS (SIGNATURE): Vince Shickora		FIELD OPERATIONS LEADER AND PHONE NUMBER: Vince Shickora (610) 909-3264	ADDRESS: P.O. Box 788 Waterville, ME
		CARRIER/WAYBILL NUMBER: Fed Ex # 8389 5045 3319	CITY, STATE: Waterville ME, 04903

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 4°C 4°C

DATE YEAR 2005	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 40 ml VOA Vials VOA	5 ml Encore Samples VOA	4 ounce Jar Dry Weight					COMMENTS
10/17	0855	TB10170501	AQ	G	3	3			AH12549.	1-3			Lab prepared Trip Blank
10/17	1038	015B51-0405	Soil	G	4		3	1	AH12550.	1-4			
10/17	1102	015B51-0910	Soil	G	4		3	1	AH12551.	1-4			
10/17	1215	FB10170501	AQ	G	3	3			AH12552.	1-3			Field Blank
10/17	1150	015B52-0405	Soil	G	10		9	1	AH12553.	1-10			DoMS/MSD
10/17	1206	015B52-1011	Soil	G	4		3	1	AH12554.	1-4			
10/17	0000	Dup-01	Soil	G	4		3	1	AH12555.	1-4			
10/17	1230	RB10170501	AQ	G	3	3			AH12556.	1-3			Rinsate Blank
10/17	1333	055B53-1011	Soil	G	4		3	1	AH12557.	1-4			
10/17	1355	055B53-1415	Soil	G	4		3	1	AH12558.	1-4			
10/17	1420	055B52-0102	Soil	G	4		3	1	AH12559.	1-4			
10/17	1454	055B52-1011	Soil	G	4		3	1	AH12560.	1-4			
		Temp Blank			1								

1. RELINQUISHED BY	DATE 10-17-05	TIME 1800	1. RECEIVED BY M Bauman	DATE 10/18/05	TIME 7AM
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: SDG TT101805

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

3/99
FORM NO. TtNUS-001

0559

1.9°

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NARRATIVE
NORTHEAST LABORATORY SERVICES
TETRA TECH NUS, INC.
NASJRB WILLOW GROVE, PA
SDG# TT101805

Sample Receipt

The following samples were received on October 18, 2005 with a hardcopy due date of November 8, 2005.

NEL Sample Number	Sample Identification	Date Sampled	Parameters
AH12549	TB10170501	10/17/05	TCL VOC
AH12550	01SB51-0405	10/17/05	TCL VOC, % solids
AH12551	01SB51-0910	10/17/05	TCL VOC, % solids
AH12552	FB10170501	10/17/05	TCL VOC
AH12553	01SB52-0405 MS/MSD	10/17/05	TCL VOC, % solids
AH12554	01SB52-1011	10/17/05	TCL VOC, % solids
AH12555	Dup-01	10/17/05	TCL VOC, % solids
AH12556	RB10170501	10/17/05	TCL VOC
AH12557	05SB53-1011	10/17/05	TCL VOC, % solids
AH12558	05SB53-1415	10/17/05	TCL VOC, % solids
AH12559	05SB52-0102	10/17/05	TCL VOC, % solids
AH12560	05SB52-1011	10/17/05	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 1.9 ^{o} 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 18, 2005 and were specified to be analyzed for a client-supplied list of volatile organics in accordance with USEPA method 8260B. The soil samples were extruded into deionized water starting at 1545 on the day of receipt and then immediately frozen.

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

Low-level soil analysis occurred on 10/26/05 and 10/27/05. A soil laboratory control sample/laboratory control sample duplicate pair was analyzed in each soil batch (all analytes soiked at 50 ug/kg), along with a matrix spike/matrix spike duplicate pair on sample AH12553 in the 10/26/05 batch. Medium level soil analysis occurred on 11/01/05, again with a LCS/LCSD pair, with all soil analytes spiked at 1000 ug/kg.

Initial analysis of soil sample AH12559 (05SB52-0102) following low-level protocols yielded internal standard area recovery deviations and target analyte concentrations over the upper limit of the calibration curve. Reanalysis following low level protocols yielded similar results, along with surrogate recovery deviations, confirming matrix interference. The sample aliquot extruded into methanol was then analyzed and given a "DL" suffix. This methanol aliquot (AH12559DL) was analyzed one day outside of the 14 day analytical holding time prescribed by method 8260B due to laboratory error. All three sets of data for this sample are included in the data package.

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 on 10/28/05.

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).

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
11/4/05

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8260 Blank

Lab Name:	NEL	Contract:	Tetra Tech
Lab Code:	SBLK	SDG No.:	TT101805
Sample ID:	8260 Blank	Date Received:	10/27/05
Lab File ID:	B7906	Date Analyzed:	10/27/05
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		5.0	U
60-29-7	Diethyl Ether		5.0	U
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		5.6	
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

Response Factor Report SAVIOR

Method : C:\HPCHEM\1\METHODS\L8260-68.M (RTE Integrator)
Title : NEL Volatiles
Last Update : Fri Oct 28 09:25:38 2005
Response via : Initial Calibration

Calibration Files

1	=B7925.D	2	=B7926.D	5	=B7927.D
10	=B7928.D	20	=B7929.D	50	=B7930.D

		Compound	1	2	5	10	20	50	Avg	%RSD
1)	I	Pentafluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)	T	Dichlorodifluoromet	0.732	0.801	0.775	0.782	0.790	0.760	0.761	5.23
3)	T	Dichlorofluorometha	0.732	0.801	0.775	0.782	0.790	0.760	0.000#	-1.00
4)	T	Chlorodifluorometha	0.732	0.801	0.775	0.782	0.790	0.760	0.000#	-1.00
5)	T	Chloromethane	0.740	0.728	0.733	0.731	0.782	0.777	0.747	3.01
6)	C	Vinyl Chloride	0.662	0.722	0.750	0.724	0.767	0.734	0.721	4.99
7)	T	Bromomethane	0.468	0.565	0.573	0.630	0.625	0.590	0.575	10.22
8)	T	Chloroethane	0.365	0.400	0.401	0.383	0.307	0.590	0.371	10.45
9)	T	Trichlorofluorometh	1.121	1.162	1.181	1.180	1.226	1.065	1.156	4.81
10)	T	Diethyl Ether	0.287	0.310	0.309	0.298	0.315	0.286	0.297	5.01
11)	T	Acetone	0.109	0.095	0.096	0.092	0.084	0.079	0.092#	11.17
12)	T	Methyl Acetate	0.233	0.222	0.219	0.209	0.220	0.196	0.214	6.30
13)	MC	1,1-Dichloroethene	0.825	0.849	0.910	0.860	0.896	0.829	0.848	5.65
14)	T	Iodomethane	0.544	0.677	0.803	0.831	0.843	0.804	0.749	14.28
15)	T	Acrolein NT	0.015	0.020	0.020	0.020	0.016	0.804	0.018#	13.30
16)	T	Allyl Chloride	0.760	0.812	0.801	0.796	0.808	0.752	0.772	6.21
17)	T	Carbon Disulfide	1.772	1.880	1.931	1.881	1.960	1.826	1.852	4.76
18)	T	Methylene Chloride	2.431	1.666	1.132	0.939	0.895	0.757	1.216	51.41
19)	T	Acrylonitrile	0.092	0.100	0.100	0.107	0.097	0.093	0.098#	5.55
20)	T	t-Butyl-Methyl Ethe	1.343	1.489	1.512	1.462	1.522	1.354	1.429	6.02
21)	T	trans-1,2-Dichloroe	0.949	1.044	1.049	1.027	1.061	0.973	1.001	5.83
22)	T	t-Butyl Alcohol (TBA NT	0.025	0.029	0.029	0.029	0.031	0.029	0.029#	6.56
23)	T	di-Isopropyl Ether	1.710	1.814	1.833	1.843	1.917	1.699	1.773	6.14
24)	T	Vinyl Acetate	0.674	0.737	0.806	0.805	0.876	0.775	0.772	8.47
25)	T	1,1-Dichloroethane	1.231	1.304	1.327	1.310	1.364	1.254	1.283	4.65
26)	T	t-Ethyl Butyl Ether	1.607	1.807	1.905	1.824	1.932	1.728	1.777	7.10
27)	T	2-Butanone	0.393	0.398	0.394	0.383	0.395	0.357	0.380	6.15
28)	T	Propionitrile NT	0.030	0.034	0.038	0.035	0.034	0.357	0.034#	8.20
29)	T	2,2-Dichloropropane	1.035	1.093	1.100	1.072	1.096	1.007	1.048	5.76
30)	T	cis-1,2-Dichloroeth	0.910	0.969	1.020	1.004	1.051	0.951	0.974	5.55
31)	T	Methacrylonitrile	0.131	0.159	0.175	0.181	0.184	0.171	0.168	10.75
32)	C	Chloroform	1.307	1.414	1.477	1.426	1.474	1.373	1.399	4.85
33)	T	Cyclohexane	0.371	0.499	0.469	0.433	0.493	0.455	0.454	9.47
34)	T	Bromochloromethane	0.394	0.431	0.425	0.399	0.414	0.373	0.399	6.76
35)	T	t-Amyl-Methyl Ether	1.363	1.528	1.537	1.558	1.653	1.525	1.519	5.80
36)	S	1,2-Dichloroethane-	0.681	0.776	0.736	0.674	0.742	0.657	0.703	6.75
37)	T	Tetrahydrofuran	0.086	0.097	0.091	0.097	0.089	0.088	0.092#	5.15
38)	T	1,1,1-Trichloroetha	1.238	1.321	1.356	1.313	1.378	1.274	1.296	5.09
39)	T	1-Chlorobutane	1.245	1.382	1.422	1.398	1.411	1.304	1.341	6.16

(#) = Out of Range ### Number of calibration levels exceeded format ###

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B7878.D
Acq On : 26 Oct 05 18:49
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 09:06:32 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	92	-0.01
2		Dichlorodifluoromethane	0.648	0.609	6.0	84	0.00
3		Chloromethane	0.579	0.584	-0.9	91	0.00
4	C	Vinyl Chloride	0.521	0.515	1.2	90	0.00
5		Bromomethane	0.391	0.377	3.6	92	0.00
6		Chloroethane	0.180	0.154	14.4	77	0.00
7		Trichlorofluoromethane	0.750	0.661	11.9	75	0.00
8		Diethyl Ether	0.246	0.252	-2.4	95	0.00
9		Acetone	0.260	0.188	27.7#	0#	0.00
10		Methyl Acetate	0.201	0.230	-14.4	121	0.00
11	MC	1,1-Dichloroethene	0.556	0.551	0.9	89	0.00
12		Iodomethane	0.645	0.606	6.0	84	0.00
13		Acrolein	NT 0.028	0.030#	-7.1	120	0.00
14		Allyl Chloride	0.407	0.402	1.2	91	0.00
15		Carbon Disulfide	1.223	1.213	0.8	88	0.00
16		Methylene Chloride	0.400	0.407	-1.7	94	0.00
17		Acrylonitrile	0.099	0.107	-8.1	117	-0.01
18		t-Butyl-Methyl Ether (MTBE)	1.102	1.154	-4.7	101	0.00
19		trans-1,2-Dichloroethene	0.494	0.485	1.8	88	-0.01
20		t-Butyl Alcohol (TBA)	0.050	0.062#	-24.0#	144	0.00
21		di-Isopropyl Ether (DIPE)	0.914	0.907	0.8	92	-0.01
22		Vinyl Acetate	0.591	0.601	-1.7	99	0.00
23		1,1-Dichloroethane	0.637	0.629	1.3	88	-0.01
24		t-Ethyl-Butyl Ether (ETBE)	1.078	1.039	3.6	91	0.00
25		2-Butanone (MEK)	0.461	0.467	-1.3	102	0.00
26		Propionitrile	0.054	0.060#	-11.1	125	-0.01
27		2,2-Dichloropropane	0.868	0.826	4.8	85	0.00
28		cis-1,2-Dichloroethene	0.597	0.478	19.9	76	-0.01
29		Methacrylonitrile	0.235	0.253	-7.7	113	-0.01
30	C	Chloroform	0.930	0.903	2.9	88	0.00
31		Cyclohexane	0.408	0.398	2.5	87	-0.01
32		Bromochloromethane	0.317	0.327	-3.2	94	-0.01
33		t-Amyl-Methyl Ether (TAME)	1.355	1.363	-0.6	93	-0.01
34	S	1,2-Dichloroethane-d4	0.531	1.154	-117.3#	203#	-0.01
35		Tetrahydrofuran	0.145	0.168	-15.9	123	-0.01
36		1,1,1-Trichloroethane	0.871	0.839	3.7	87	-0.01
37		1-Chlorobutane	0.938	0.905	3.5	85	0.00

0418

(#) = Out of Range

10/27/05

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B7902.D Vial: 100
Acq On : 27 Oct 05 9:24 Operator:
Sample : VSTD050ccv Inst : SAVIOR
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

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	70	-0.07
2		Dichlorodifluoromethane	0.648	0.683	-5.4	72	0.00
3		Chloromethane	0.579	0.638	-10.2	76	-0.02
4	C	Vinyl Chloride	0.521	0.579	-11.1	77	-0.02
5		Bromomethane	0.391	0.461	-17.9	85	-0.02
6		Chloroethane	0.180	0.199	-10.6	76	-0.01
7		Trichlorofluoromethane	0.750	0.809	-7.9	70	-0.01
8		Diethyl Ether	0.246	0.290	-17.9	83	-0.02
9		Acetone	0.260	0.295	-13.5	0#	-0.03
10		Methyl Acetate	0.201	0.271	-34.8#	108	-0.03
11	MC	1,1-Dichloroethene	0.556	0.658	-18.3	81	-0.02
12		Iodomethane	0.645	0.715	-10.9	75	-0.02
13		Acrolein	NT 0.028	0.036#	-28.6#	NT 108	-0.03
14		Allyl Chloride	0.407	0.471	-15.7	81	-0.03
15		Carbon Disulfide	1.223	1.451	-18.6	80	-0.02
16		Methylene Chloride	0.400	0.485	-21.2#	85	-0.03
17		Acrylonitrile	0.099	0.120	-21.2#	100	-0.05
18		t-Butyl-Methyl Ether (MTBE)	1.102	1.299	-17.9	86	-0.04
19		trans-1,2-Dichloroethene	0.494	0.583	-18.0	80	-0.04
20		t-Butyl Alcohol (TBA)	0.050	0.070#	-40.0#	NT 122	-0.04
21		di-Isopropyl Ether (DIPE)	0.914	1.055	-15.4	81	-0.05
22		Vinyl Acetate	0.591	0.702	-18.8	87	-0.05
23		1,1-Dichloroethane	0.637	0.733	-15.1	78	-0.05
24		t-Ethyl-Butyl Ether (ETBE)	1.078	1.199	-11.2	80	-0.05
25		2-Butanone (MEK)	0.461	0.618	-34.1#	103	-0.07
26		Propionitrile	0.054	0.065#	-20.4#	102	-0.08
27		2,2-Dichloropropane	0.868	0.946	-9.0	74	-0.05
28		cis-1,2-Dichloroethene	0.597	0.724	-21.3#	87	-0.05
29		Methacrylonitrile	0.235	0.276	-17.4	93	-0.06
30	C	Chloroform	0.930	1.034	-11.2	76	-0.06
31		Cyclohexane	0.408	0.459	-12.5	76	-0.04
32		Bromochloromethane	0.317	0.358	-12.9	78	-0.05
33		t-Amyl-Methyl Ether (TAME)	1.355	1.477	-9.0	77	-0.07
34	S	1,2-Dichloroethane-d4	0.531	1.269	-139.0#	169#	-0.07
35		Tetrahydrofuran	0.145	0.172	-18.6	96	-0.07
36		1,1,1-Trichloroethane	0.871	0.977	-12.2	77	-0.06
37		1-Chlorobutane	0.938	1.042	-11.1	74	-0.06

(#) = Out of Range

0628
10/31/05

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B7933.D
Acq On : 28 Oct 05 3:38
Sample : VSTD010ccv
Misc :
MS Integration Params: rteint.p

Vial: 100
Operator:
Inst : SAVIOR
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\L8260-68.M (RTE Integrator)
Title : NEL Volatiles
Last Update : Fri Oct 28 09:25:38 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	97	0.00
2	T	Dichlorodifluoromethane (CF	0.761	0.599	21.3#	75	0.00
3	T	Dichlorofluoromethane	NT 0.000	0.001#	0.0	0#	0.00
4	T	Chlorodifluoromethane (HCFC	NT 0.000	0.004#	0.0	0#	-0.02
5	T	Chloromethane	0.747	0.653	12.6	87	0.00
6	C	Vinyl Chloride	0.721	0.663	8.0	89	0.00
7	T	Bromomethane	0.575	0.589	-2.4	100	0.00
8	T	Chloroethane	0.371	0.400	-7.8	102	0.00
9	T	Trichlorofluoromethane (CFC	1.156	1.062	8.1	88	0.00
10	T	Diethyl Ether	0.297	0.300	-1.0	98	0.00
11	T	Acetone	0.092	0.092#	0.0	94	0.00
12	T	Methyl Acetate	0.214	0.208	2.8	97	0.00
13	MC	1,1-Dichloroethene	0.848	0.805	5.1	91	0.00
14	T	Iodomethane	0.749	0.851	-13.6	100	0.00
15	T	Acrolein	NT 0.018	0.022#	-22.2#	109	0.00
16	T	Allyl Chloride	0.772	0.775	-0.4	95	0.00
17	T	Carbon Disulfide	1.852	1.825	1.5	94	0.00
18	T	Methylene Chloride	1.216	0.913	24.9#	95	0.00
19	T	Acrylonitrile	0.098	0.099#	-1.0	97	0.00
20	T	t-Butyl-Methyl Ether (MTBE)	1.429	1.499	-4.9	100	0.00
21	T	trans-1,2-Dichloroethene	1.001	1.012	-1.1	96	0.00
22	T	t-Butyl Alcohol (TBA)	NT 0.029	0.028#	3.4	95	0.00
23	T	di-Isopropyl Ether (DIPE)	1.773	1.856	-4.7	98	0.00
24	T	Vinyl Acetate	0.772	0.818	-6.0	99	0.00
25	T	1,1-Dichloroethane	1.283	1.295	-0.9	96	0.00
26	T	t-Ethyl Butyl Ether (ETBE)	1.777	1.861	4.7	99	0.00
27	T	2-Butanone	0.380	0.283	25.5#	72	0.00
28	T	Propionitrile	NT 0.034	0.030#	11.8	87	-0.01
29	T	2,2-Dichloropropane	1.048	0.992	5.3	90	0.00
30	T	cis-1,2-Dichloroethene	0.974	1.028	-5.5	100	0.00
31	T	Methacrylonitrile	0.168	0.175	-4.2	95	0.00
32	C	Chloroform	1.399	1.454	-3.9	99	0.00
33	T	Cyclohexane	0.454	0.472	-4.0	106	-0.01
34	T	Bromochloromethane	0.399	0.408	-2.3	100	-0.01
35	T	t-Amyl-Methyl Ether (TAME)	1.519	1.588	-4.5	99	0.00
36	S	1,2-Dichloroethane-d4	0.703	0.690	1.8	100	0.00
37	T	Tetrahydrofuran	0.092	0.095#	-3.3	102	-0.01

0438

(#) = Out of Range

10/28/05

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NEL Contract: Tetra Tech

Lab Code: Case No.: SAS No.: SDG No.: TT101805

Lab File ID (Standard): B7878.D Date Analyzed: 10/26/05

Instrument ID: MS1 Time Analyzed: 18:49

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

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	701019	7.42	1136030	8.57	1147425	12.16
	UPPER LIMIT	1402038	6.92	2272060	8.07	2294850	11.66
	LOWER LIMIT	350510	7.92	568015	9.07	573713	12.66
	EPA SAMPLE NO.						
01	SLCS 10/26/05	663828	7.42	1076557	8.57	1075394	12.16
02	SLCSD 10/26/05	662481	7.42	1094822	8.57	1062459	12.16
03	SBLK 10/26/05	634568	7.41	1091420	8.57	1125052	12.16
04	AH12550	508435	7.41	884167	8.57	910888	12.16
05	AH12551	542154	7.41	980484	8.57	998245	12.16
06	AH12554	524516	7.41	941236	8.56	971417	12.15
07	AH12555	465625	7.41	852347	8.55	875716	12.15
08	AH12557	514820	7.40	907221	8.55	951414	12.15
09	AH12559	362636	7.40	789527	8.55	533163 *	12.15
10	AH12553	448313	7.40	797288	8.55	804929	12.15
11	AH12553 MS	446784	7.39	795150	8.55	801279	12.15
12	AH12553 MSD	436615	7.39	795054	8.55	803985	12.15

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.: TT101805

Lab File ID (Standard): B7878.D Date Analyzed: 10/26/05

Instrument ID: MS1 Time Analyzed: 18:49

GC Column: Restek Rtx- ID: 0.25 (mm) Heated Purge (Y/N): ~~N~~ Y nw 11/03/05

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	920561	14.03				
	UPPER LIMIT	1841122	13.53				
	LOWER LIMIT	460281	14.53				
	EPA SAMPLE NO.						
01	SLCS 10/26/0	838370	14.03				
02	SLCSD 10/26/	860728	14.03				
03	SBLK 10/26/05	874432	14.02				
04	AH12550	688546	14.02				
05	AH12551	755447	14.02				
06	AH12554	733252	14.02				
07	AH12555	645003	14.02				
08	AH12557	707888	14.02				
09	AH12559	284170 *	14.02				
10	AH12553	578470	14.02				
11	AH12553 MS	608679	14.02				
12	AH12553 MSD	600908	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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NEL Contract: Tetra Tech

Lab Code: Case No.: SAS No.: SDG No.: TT101805

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		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	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 AH12560	516892	7.37	904807	8.53	945436	12.13
05 AH12558	533089	7.37	922584	8.53	945673	12.13
06 AH12559 RE	313384	7.36	688084	8.53	425382 *	12.13

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.: TT101805

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 nw 11/03/05

		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	AH12560	723054	14.00				
05	AH12558	727228	14.01				
06	AH12559 RE	228168 *	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

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NEL Contract: Tetra Tech

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: TT101805

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	SLCS 10/26/05	115	96	94	0
02	SLCSD 10/26/05	112	96	98	0
03	SBLK 10/26/05	126	101	100	0
04	AH12550	126	100	99	0
05	AH12551	133	100	99	0
06	AH12554	133	100	100	0
07	AH12555	135	102	98	0
08	AH12557	130	102	99	0
09	AH12559	155	77	119	0
10	AH12553	124	100	95	0
11	AH12553 MS	122	99	95	0
12	AH12553 MSD	128	100	96	0
13	SLCS 10/27/05	118	101	102	0
14	SLCSD 10/27/05	109	98	99	0
15	SBLK 10/27/05	132	100	97	0
16	AH12560	105	82	81	0
17	AH12558	116	92	92	0
18	AH12559 RE	160 *	70	175 *	2

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

8260B Soil Volatile
Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Northeast Laboratory Services
SDG No. TT101805
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: AH12553 MS/MSD

LCS File ID: B7894
Date Analyzed: 10/27/05
Time Analyzed: 4:48

LCSD File ID: B7895
Date Analyzed: 10/27/05
Time Analyzed: 5:25

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	44.8	48.6	<1.0	35	39	77		80		60-140	3.5		20
Chloromethane	44.8	48.6	<1.0	45	50	100		103		60-140	3.1		20
Vinyl Chloride	44.8	48.6	<1.0	47	54	105		110		60-140	4.5		20
Bromomethane	44.8	48.6	<1.0	44	51	99		105		60-140	5.7		20
Chloroethane	44.8	48.6	<1.0	53	66	119		136		60-140	13.3		20
Trichlorofluoromethane	44.8	48.6	<1.0	64	72	142	*	149	*	60-140	4.3		20
Diethyl Ether	44.8	48.6	<1.0	63	71	140		147	*	60-140	4.9		20
Acetone	44.8	48.6	2.2	36	45	76		89		60-140	15.4		20
1,1-Dichloroethene	44.8	48.6	<1.0	62	71	139		145	*	60-140	4.4		20
Carbon Disulfide	44.8	48.6	<1.0	63	72	140		148	*	60-140	5.3		20
Methylene Chloride	44.8	48.6	7.1	59	69	116		126		60-140	8.9		20
t-Butyl-Methyl Ether (MTBE	89.6	97.2	<1.0	123	139	137		143	*	60-140	4.1		20
trans-1,2-Dichloroethene	44.8	48.6	<1.0	61	70	135		144	*	60-140	6.2		20
1,1-Dichloroethane	44.8	48.6	<1.0	60	69	134		141	*	60-140	5.5		20
2-Butanone (MEK)	44.8	48.6	<1.0	52	61	117		126		60-140	7.6		20
cis-1,2-Dichloroethene	44.8	48.6	<1.0	47	53	104		108		60-140	3.9		20
Chloroform	44.8	48.6	<1.0	58	66	129		136		60-140	5.0		20
Bromochloromethane	44.8	48.6	<1.0	58	67	130		139		60-140	6.3		20
1,1,1-Trichloroethane	44.8	48.6	<1.0	60	68	135		141	*	60-140	4.2		20
Carbon Tetrachloride	44.8	48.6	<1.0	59	67	133		138		60-140	3.8		20
1,2-Dichloroethane	44.8	48.6	<1.0	58	68	130		140		60-140	7.1		20
Benzene	44.8	48.6	<1.0	56	64	125		131		60-140	4.8		20
Trichloroethene	44.8	48.6	<1.0	47	53	105		108		60-140	3.4		20
1,2-Dichloropropane	44.8	48.6	<1.0	49	55	110		114		60-140	3.2		20
Bromodichloromethane	44.8	48.6	<1.0	48	53	107		110		60-140	2.5		20
4-Methyl-2-Pentanone (MIB	44.8	48.6	<1.0	61	67	135		138		60-140	2.0		20
cis-1,3-Dichloropropene	44.8	48.6	<1.0	48	52	107		108		60-140	1.0		20
Toluene	44.8	48.6	<1.0	50	56	111		114		60-140	3.4		20
trans-1,3-Dichloropropene	44.8	48.6	<1.0	51	57	115		116		60-140	1.6		20
1,1,2-Trichloroethane	44.8	48.6	<1.0	51	56	114		116		60-140	1.6		20
2-Hexanone	44.8	48.6	<1.0	52	57	116		118		60-140	1.6		20
Tetrachloroethene	44.8	48.6	<1.0	47	51	104		105		60-140	0.9		20
Dibromochloromethane	44.8	48.6	<1.0	50	56	112		115		60-140	2.9		20
1,2-Dibromoethane	44.8	48.6	<1.0	52	58	116		119		60-140	2.8		20
1,1,1,2-Tetrachloroethane	44.8	48.6	<1.0	50	55	111		114		60-140	2.4		20
Ethylbenzene	44.8	48.6	<1.0	52	58	115		120		60-140	3.6		20
m,p-Xylene	89.6	97.2	<1.0	101	112	112		115		60-140	2.2		20
o-Xylene	44.8	48.6	<1.0	49	56	109		114		60-140	4.5		20
Styrene	44.8	48.6	<1.0	16	24	35	*	50	*	60-140	33.8	*	20
Bromoform	44.8	48.6	<1.0	55	60	123		124		60-140	1.4		20
1,1,2,2-Tetrachloroethane	44.8	48.6	<1.0	55	61	123		125		60-140	1.4		20
1,3-Dichlorobenzene	44.8	48.6	<1.0	50	55	111		113		60-140	2.0		20
1,4-Dichlorobenzene	44.8	48.6	<1.0	49	55	110		114		60-140	3.6		20
1,2-Dichlorobenzene	44.8	48.6	<1.0	52	59	116		121		60-140	3.9		20

RPD 1 out of 80 outside limits

Spike Recovery 11 out of 160 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. TT101805
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: B7880
Date Analyzed: 10/26/05
Time Analyzed: 20:04

SLCSD File ID: B7881
Date Analyzed: 10/26/05
Time Analyzed: 20:42

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	33.1	30.7	66		61		60-140	7.5		20
Chloromethane	50	<1.0	44.2	42.4	88		85		60-140	4.2		20
Vinyl Chloride	50	<1.0	44.3	41.9	89		84		60-140	5.7		20
Bromomethane	50	<1.0	45.3	42.4	91		85		60-140	6.7		20
Chloroethane	50	<1.0	46.7	45.1	93		90		60-140	3.7		20
Trichlorofluoromethane	50	<1.0	46.9	45.0	94		90		60-140	4.0		20
Diethyl Ether	50	<1.0	60.3	58.9	121		118		60-140	2.2		20
Acetone	50	<1.0	53.3	31.0	107		62		60-140	52.9		20
1,1-Dichloroethene	50	<1.0	54.9	53.5	110		107		60-140	2.6		20
Carbon Disulfide	50	<1.0	56.0	55.4	112		111		60-140	1.1		20
Methylene Chloride	50	<1.0	55.9	55.1	112		110		60-140	1.4		20
t-Butyl-Methyl Ether (MTBE	100	<1.0	116.2	116.3	116		116		60-140	0.1		20
trans-1,2-Dichloroethene	50	<1.0	55.4	54.8	111		110		60-140	1.2		20
1,1-Dichloroethane	50	<1.0	55.1	54.5	110		109		60-140	1.1		20
2-Butanone (MEK)	50	<1.0	57.6	47.8	115		96		60-140	18.7		20
cis-1,2-Dichloroethene	50	<1.0	47.8	47.1	96		94		60-140	1.3		20
Chloroform	50	<1.0	55.3	53.9	111		108		60-140	2.6		20
Bromochloromethane	50	<1.0	57.9	57.1	116		114		60-140	1.5		20
1,1,1-Trichloroethane	50	<1.0	53.6	52.9	107		106		60-140	1.3		20
Carbon Tetrachloride	50	<1.0	53.4	51.4	107		103		60-140	3.8		20
1,2-Dichloroethane	50	<1.0	56.3	54.6	113		109		60-140	3.2		20
Benzene	50	<1.0	52.7	52.7	105		105		60-140	0.0		20
Trichloroethene	50	<1.0	48.1	47.0	96		94		60-140	2.3		20
1,2-Dichloropropane	50	<1.0	52.4	51.2	105		102		60-140	2.2		20
Bromodichloromethane	50	<1.0	51.7	49.6	103		99		60-140	4.2		20
4-Methyl-2-Pentanone (MIE	50	<1.0	62.2	58.9	124		118		60-140	5.4		20
cis-1,3-Dichloropropene	50	<1.0	52.6	50.7	105		101		60-140	3.6		20
Toluene	50	<1.0	49.7	48.6	99		97		60-140	2.1		20
trans-1,3-Dichloropropene	50	<1.0	55.6	54.1	111		108		60-140	2.7		20
1,1,2-Trichloroethane	50	<1.0	54.1	52.0	108		104		60-140	3.9		20
2-Hexanone	50	<1.0	58.1	47.9	116		96		60-140	19.3		20
Tetrachloroethene	50	<1.0	49.6	46.9	99		94		60-140	5.6		20
Dibromochloromethane	50	<1.0	53.3	51.9	107		104		60-140	2.7		20
1,2-Dibromoethane	50	<1.0	55.5	53.0	111		106		60-140	4.7		20
1,1,1,2-Tetrachloroethane	50	<1.0	52.1	51.6	104		103		60-140	1.0		20
Ethylbenzene	50	<1.0	50.4	50.6	101		101		60-140	0.3		20
m,p-Xylene	100	<1.0	98.6	98.2	99		98		60-140	0.4		20
o-Xylene	50	<1.0	49.9	49.7	100		99		60-140	0.4		20
Styrene	50	<1.0	50.3	50.5	101		101		60-140	0.5		20
Bromoform	50	<1.0	57.7	57.7	115		115		60-140	0.1		20
1,1,2,2-Tetrachloroethane	50	<1.0	56.7	57.4	113		115		60-140	1.2		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	50.2	49.7	100		99		60-140	1.1		20
1,4-Dichlorobenzene	50	<1.0	50.8	49.5	102		99		60-140	2.6		20
1,2-Dichlorobenzene	50	<1.0	53.7	52.8	107		106		60-140	1.8		20
Methyl Acetate	50	<1.0	89.7	91.4	179	*	183	*	60-140	1.9		20
Cyclohexane	50	<1.0	53.0	52.5	106		105		60-140	0.9		20
Methylcyclohexane	50	<1.0	51.9	51.5	104		103		60-140	0.6		20

RPD 1 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:

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. TT101805
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 LCSD File ID: B7936
Date Analyzed: 10/28/05 Date Analyzed: 10/28/05
Time Analyzed: 4:50 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-Dichloroethene	10	<1.0	12.5	10.9	125		109		60-140	13.3		20
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. TT101805
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 SLCSD File ID: B7985
Date Analyzed: 11/01/05 Date Analyzed: 11/1/05
Time Analyzed: 14:04 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:

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:	01SB52-1011		DUP-01				
Laboratory ID:	AH12554		AH125555				
Sample Date:	10/17/2005		10/17/2005				
Duplicate:	DUP-01		01SB52-1011				
	RESULT	QUAL	RESULT	QUAL	RPD	CRQL/MDL	NOTES
PARAMETERS	mg/Kg		mg/Kg				
4-Methyl-2-Pentanone	0.51	J	0.77	J	NA	10	2, IN
Acetone	1.4	J	3.6	J	NA	10	2, IN
MTBE	1	U	0.45	J	NA	1	2, IN
Styrene	10	U	0.65	J	NA	10	2, 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

No qualifications were made due to field duplicate precision.

JLR 11/17/05