N00158.AR.000213
NAS WILLOW GROVE
5090.3a

TETRA TECH NUS

PHIL-19492

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

SUBJECT: **ORGANIC DATA VALIDATION – VOLATILES AND 1,4-DIOXANE**
NAS JRB WILLOW GROVE, PENNSYLVANIA
SDG NO. T4272

SAMPLES: **13/Aqueous/**

05-MW01-I	05-MW04-I	05-MW09-SI	TB-081605
05-MW02-S	05-MW04-S	05-MW12-I	
05-MW03-I	05-MW09-I	DUP-02	
05-MW03-S	05-MW09-S	FB-081705	

OVERVIEW

The sample set for NAS JRB Willow Grove Site 5 – Willow Grove, PA, SDG T4272 consists of eleven aqueous environmental samples (designated 05-MW-) and two field quality control (QC) blanks (designated FB- and TB-). One field duplicate pair (05-MW03-I and DUP-02) was included in this sample set. Sample 05-MW09-SI was designated for matrix spike/matrix spike duplicate (MS/MSD) analysis. All samples were analyzed for target compound list (TCL) Volatile Organic Compounds (VOCs) and 1,4-Dioxane. The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on August 15 through 17, 2005 and analyzed by Chemtech of Mountainside, New Jersey.

All analyses were conducted using EPA SW-846 Methods 8260 for VOCs and 8270 for 1,4-Dioxane.

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, laboratory control spike/spike duplicate results, internal standards performance, compound identification, and compound quantitation.

MAJOR PROBLEMS

- The initial and continuing calibration for acetone exhibited relative response factors (RRFs) below 0.05. Non-detected results for acetone in the associated samples were qualified as unusable (UR).

MINOR PROBLEMS

- The percent difference (%D) for tetrachloroethene exceeded QC criteria of 50% in one continuing calibration. All positive and non-detected results for tetrachloroethene in the associated environmental samples were qualified as estimated (J/UJ).

- Three 8270 surrogate compound recoveries were below the QC criteria for sample 05-MW04-I. The surrogate compounds were quantified based on a different initial calibration than the 1,4-dioxane analysis. The low surrogate recoveries may indicate a matrix effect, therefore, the non-detected results for sample 05-MW04-I may be biased low. The non-detected 1,4-dioxane result for 05-MW04-I was qualified as biased low (UL).
- Positive results at concentrations less than the Reporting Limits (RLs) were qualified as estimated (J).

NOTES

1,4-Dichlorobenzene was detected in one of the field QC blanks. No qualifications were made because this compound was not detected in the associated environmental samples.

The percent relative standard deviation (%RSD) for chloroethane exceeded QC criteria of 30% in the initial calibrations. No qualifications were made because there were no positive results for this compound.

The %D for bromoform exceeded QC criteria of 25% in a continuing calibration. No qualifications were made because there were no positive results for this compound.

EXECUTIVE SUMMARY

Laboratory Performance: Acetone exhibited RRFs below the QC criteria in the initial and continuing calibrations. One compound exceeded initial calibration RSD criteria. Two compounds exceeded continuing calibration %D criteria. Surrogate recoveries were below QC limits in one sample.

Other Factors Affecting Data Quality: 1,4-Dichlorobenzene was detected in a field QC blank.

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: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	05-MW01-I
samp_date	8/17/2005
lab_id	T4272-09
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.45	J	P
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	0.85	J	P
1,1-DICHLOROETHENE	0.41	J	P
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.09	U	
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	05-MW01-I
samp_date	8/17/2005
lab_id	T4272-09
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.78	J	P
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	0.12	UJ	C
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	0.36	J	P
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	05-MW02-S
samp_date	8/17/2005
lab_id	T4272-08
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.16	U	
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	0.17	U	
1,1-DICHLOROETHENE	0.19	U	
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.61	J	P
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	05-MW02-S
samp_date	8/17/2005
lab_id	T4272-08
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1.7		
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	0.12	U	
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	05-MW03-I
samp_date	8/16/2005
lab_id	T4272-04
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	DUP-02

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.3		
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	5.7		
1,1-DICHLOROETHENE	1.8		
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	1.4		
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	05-MW03-I
samp_date	8/16/2005
lab_id	T4272-04
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	DUP-02

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1.2		
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	1.4		
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	05-MW03-S
samp_date	8/16/2005
lab_id	T4272-05
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.16	U	
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	0.17	U	
1,1-DICHLOROETHENE	0.19	U	
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.09	U	
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	05-MW03-S
samp_date	8/16/2005
lab_id	T4272-05
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	0.12	U	
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	0.12	U	
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	05-MW04-I
samp_date	8/16/2005
lab_id	T4272-02
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	25		
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.7	J	P
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	24		
1,1-DICHLOROETHENE	16		
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.4	J	P
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	5.7		
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	05-MW04-I
samp_date	8/16/2005
lab_id	T4272-02
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1.5		
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	14		
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	05-MW04-S
samp_date	8/16/2005
lab_id	T4272-03
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.16	U	
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	0.17	U	
1,1-DICHLOROETHENE	0.19	U	
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.09	U	
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	05-MW04-S
samp_date	8/16/2005
lab_id	T4272-03
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	0.12	U	
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	0.12	U	
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	05-MW09-I
samp_date	8/17/2005
lab_id	T4272-14
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	9.4		
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	14		
1,1-DICHLOROETHENE	13		
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.78	J	P
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	2.3		
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	05-MW09-I
samp_date	8/17/2005
lab_id	T4272-14
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	1		
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1	J	C
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	7.3		
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	05-MW09-S
samp_date	8/17/2005
lab_id	T4272-13
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	8.2		
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	21		
1,1-DICHLOROETHENE	15		
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.4	J	P
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.83	J	P
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.8	J	P
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	05-MW09-S
samp_date	8/17/2005
lab_id	T4272-13
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.65	J	P
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1.5	J	C
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	6.2		
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	05-MW09-SI
samp_date	8/17/2005
lab_id	T4272-10
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	16		
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.64	J	P
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	19		
1,1-DICHLOROETHENE	25		
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.89	J	P
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.39	J	P
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	1.9		
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	05-MW09-SI
samp_date	8/17/2005
lab_id	T4272-10
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	1		
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1.5	J	C
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	13		
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	05-MW12-I
samp_date	8/17/2005
lab_id	T4272-07
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.16	U	
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	0.79	J	P
1,1-DICHLOROETHENE	0.19	U	
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.6	J	P
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	05-MW12-I
samp_date	8/17/2005
lab_id	T4272-07
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1.1		
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	0.12	U	
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	DUP-02
samp_date	8/16/2005
lab_id	T4272-06
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	05-MW03-I

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.3		
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	5.7		
1,1-DICHLOROETHENE	1.8		
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	1.4		
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	DUP-02
samp_date	8/16/2005
lab_id	T4272-06
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	05-MW03-I

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	1.1		
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	1.4		
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

nsample	FB-081705
samp_date	8/17/2005
lab_id	T4272-15
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.16	U	
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	0.17	U	
1,1-DICHLOROETHENE	0.19	U	
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	1.1		
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.09	U	
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	FB-081705
samp_date	8/17/2005
lab_id	T4272-15
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	0.12	U	
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	0.12	U	
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OV

nsample	TB-081605
samp_date	8/15/2005
lab_id	T4272-01
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.16	U	
1,1,2,2-TETRACHLOROETHANE	0.09	U	
1,1,2-TRICHLOROETHANE	0.11	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.13	U	
1,1-DICHLOROETHANE	0.17	U	
1,1-DICHLOROETHENE	0.19	U	
1,2,4-TRICHLOROBENZENE	0.08	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.2	U	
1,2-DIBROMOETHANE	0.12	U	
1,2-DICHLOROBENZENE	0.08	U	
1,2-DICHLOROETHANE	0.13	U	
1,2-DICHLOROPROPANE	0.15	U	
1,3-DICHLOROBENZENE	0.1	U	
1,4-DICHLOROBENZENE	0.12	U	
2-BUTANONE	0.23	U	
2-HEXANONE	0.57	U	
4-METHYL-2-PENTANONE	0.46	U	
ACETONE	1.6	UR	C
BENZENE	0.15	U	
BROMODICHLOROMETHANE	0.14	U	
BROMOFORM	0.09	U	
BROMOMETHANE	0.18	U	
CARBON DISULFIDE	0.11	U	
CARBON TETRACHLORIDE	0.16	U	
CHLOROBENZENE	0.11	U	
CHLORODIBROMOMETHANE	0.13	U	
CHLOROETHANE	0.46	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.08	U	
CIS-1,2-DICHLOROETHENE	0.09	U	
CIS-1,3-DICHLOROPROPENE	0.12	U	
CYCLOHEXANE	0.15	U	

nsample	TB-081605
samp_date	8/15/2005
lab_id	T4272-01
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.12	U	
ETHYLBENZENE	0.11	U	
ISOPROPYLBENZENE	0.12	U	
M+P-XYLENES	0.24	U	
METHYL ACETATE	0.16	U	
METHYL CYCLOHEXANE	0.14	U	
METHYL TERT-BUTYL ETHER	0.22	U	
METHYLENE CHLORIDE	0.42	U	
O-XYLENE	0.13	U	
STYRENE	0.11	U	
TETRACHLOROETHENE	0.12	U	
TOLUENE	0.11	U	
TOTAL XYLENES	0.37	U	
TRANS-1,2-DICHLOROETHENE	0.1	U	
TRANS-1,3-DICHLOROPROPENE	0.1	U	
TRICHLOROETHENE	0.12	U	
TRICHLOROFLUOROMETHANE	0.1	U	
VINYL CHLORIDE	0.09	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OS

nsample	05-MW01-I
samp_date	8/17/2005
lab_id	T4272-09
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

nsample	05-MW02-S
samp_date	8/17/2005
lab_id	T4272-08
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

nsample	05-MW03-I
samp_date	8/16/2005
lab_id	T4272-04
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	DUP-02

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OS

nsample	05-MW03-S
samp_date	8/16/2005
lab_id	T4272-05
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

nsample	05-MW04-I
samp_date	8/16/2005
lab_id	T4272-02
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	UL	R

nsample	05-MW04-S
samp_date	8/16/2005
lab_id	T4272-03
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OS

nsample	05-MW09-I
samp_date	8/17/2005
lab_id	T4272-14
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

nsample	05-MW09-S
samp_date	8/17/2005
lab_id	T4272-13
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

nsample	05-MW09-SI
samp_date	8/17/2005
lab_id	T4272-10
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

PROJ_NO: 2192

SDG: T4272 MEDIA: WATER DATA FRACTION: OS

nsample	05-MW12-I
samp_date	8/17/2005
lab_id	T4272-07
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

nsample	DUP-02
samp_date	8/16/2005
lab_id	T4272-06
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	05-MW03-I

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

nsample	FB-081705
samp_date	8/17/2005
lab_id	T4272-15
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,4-DIOXANE	2.1	U	

APPENDIX B

Results as Reported by the Laboratory

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW01-I	SDG No.:	T4272
Lab Sample ID:	T4272-09	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082805.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	0.41	J	1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.78	J	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	0.85	J	1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.09	U	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	0.45	J	1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	0.36	J	1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW01-I	SDG No.:	T4272
Lab Sample ID:	T4272-09	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082805.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	9.82	98 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	10.18	102 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.86	99 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.5	105 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2496670	7.93			
540-36-3	1,4-Difluorobenzene	3591557	9.25			
3114-55-4	Chlorobenzene-d5	2968897	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1555172	20.55			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW02-S	SDG No.:	T4272
Lab Sample ID:	T4272-08	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082713.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	0.17	U	1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.61	J	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	0.12	U	1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW02-S	SDG No.:	T4272
Lab Sample ID:	T4272-08	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082713.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.7		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	10.24	102 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.78	98 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	10	100 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.28	103 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2429402	7.93			
540-36-3	1,4-Difluorobenzene	3658846	9.25			
3114-55-4	Chlorobenzene-d5	2947223	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1493839	20.55			

U = Not Detected
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E = Value Exceeds Calibration Range
J = Estimated Value
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N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW03-I	SDG No.:	T4272
Lab Sample ID:	T4272-04	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082709.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	1.8		1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	5.7		1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	1.4		1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	1.3		1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	1.4		1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW03-I	SDG No.:	T4272
Lab Sample ID:	T4272-04	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082709.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.2		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	9.12	91 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.59	96 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.84	98 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.02	100 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2812482	7.94			
540-36-3	1,4-Difluorobenzene	4053308	9.25			
3114-55-4	Chlorobenzene-d5	3315209	15.21			
3855-82-1	1,4-Dichlorobenzene-d4	1634760	20.56			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW03-S	SDG No.:	T4272
Lab Sample ID:	T4272-05	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082710.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	0.17	U	1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.09	U	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	0.12	U	1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW03-S	SDG No.:	T4272
Lab Sample ID:	T4272-05	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082710.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	8.74	87 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	8.94	89 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.21	92 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	9.32	93 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2919772	7.94			
540-36-3	1,4-Difluorobenzene	4252484	9.26			
3114-55-4	Chlorobenzene-d5	3476633	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1709117	20.55			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW04-I	SDG No.:	T4272
Lab Sample ID:	T4272-02	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Vol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082707.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	16		1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	24		1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	5.7		1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	25		1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.40	J	1.0	0.13	ug/L
79-01-6	Trichloroethene	14		1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.70	J	1.0	0.11	ug/L

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW04-I	SDG No.:	T4272
Lab Sample ID:	T4272-02	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082707.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.5		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	8.81	88 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.15	92 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.42	94 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	9.52	95 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	3153584	7.93			
540-36-3	1,4-Difluorobenzene	4610417	9.26			
3114-55-4	Chlorobenzene-d5	3859596	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1924586	20.55			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW04-S	SDG No.:	T4272
Lab Sample ID:	T4272-03	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082708.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	0.17	U	1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.09	U	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	0.12	U	1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW04-S	SDG No.:	T4272
Lab Sample ID:	T4272-03	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082708.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	10.04	100 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.79	98 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.64	96 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.24	102 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2747067	7.93			
540-36-3	1,4-Difluorobenzene	4095551	9.25			
3114-55-4	Chlorobenzene-d5	3320813	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1677827	20.55			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW09-I	SDG No.:	T4272
Lab Sample ID:	T4272-14	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082808.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	13		1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	1.0		1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	14		1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	2.3		1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	9.4		1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.78	J	1.0	0.13	ug/L
79-01-6	Trichloroethene	7.3		1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW09-1	SDG No.:	T4272
Lab Sample ID:	T4272-14	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082808.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.0		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	10.64	106 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	10.26	103 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.87	99 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.6	106 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2369869	7.92			
540-36-3	1,4-Difluorobenzene	3488560	9.24			
3114-55-4	Chlorobenzene-d5	2933417	15.19			
3855-82-1	1,4-Dichlorobenzene-d4	1537791	20.54			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW09-S	SDG No.:	T4272
Lab Sample ID:	T4272-13	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082807.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	15		1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.65	J	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	21		1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	J	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	8.2		1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.83	J	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.40	J	1.0	0.13	ug/L
79-01-6	Trichloroethene	6.2		1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW09-S	SDG No.:	T4272
Lab Sample ID:	T4272-13	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Vol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082807.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.5		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	9.61	96 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.67	97 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.75	98 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.26	103 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2446181	7.92			
540-36-3	1,4-Difluorobenzene	3613839	9.25			
3114-55-4	Chlorobenzene-d5	2945684	15.19			
3855-82-1	1,4-Dichlorobenzene-d4	1486578	20.55			
TENTITIVE IDENTIFIED COMPOUNDS						
000565-75-3	Pentane, 2,3,4-trimethyl-	6.0	J	10.70		ug/L
000560-21-4	Pentane, 2,3,3-trimethyl-	7.2	J	10.92		ug/L

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW09-SI	SDG No.:	T4272
Lab Sample ID:	T4272-10	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082806.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	25		1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	1.0		1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	19		1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	1.9		1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	16		1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.39	J	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.89	J	1.0	0.13	ug/L
79-01-6	Trichloroethene	13		1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.64	J	1.0	0.11	ug/L

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW09-SI	SDG No.:	T4272
Lab Sample ID:	T4272-10	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082806.D	1	8/28/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.5		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	10.56	106 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	10.25	103 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	10.03	100 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.43	104 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2504873	7.93			
540-36-3	1,4-Difluorobenzene	3691240	9.25			
3114-55-4	Chlorobenzene-d5	3073199	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1584093	20.55			
TENTITIVE IDENTIFIED COMPOUNDS						
000565-75-3	Pentane, 2,3,4-trimethyl-	1.2	J	10.70		ug/L
000560-21-4	Pentane, 2,3,3-trimethyl-	1.9	J	10.91		ug/L

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW12-1	SDG No.:	T4272
Lab Sample ID:	T4272-07	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082712.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	0.79	J	1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.60	J	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	0.12	U	1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	05-MW12-I	SDG No.:	T4272
Lab Sample ID:	T4272-07	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082712.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.1		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	9.92	99 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.5	95 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.51	95 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.11	101 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2340948	7.93			
540-36-3	1,4-Difluorobenzene	3545697	9.26			
3114-55-4	Chlorobenzene-d5	2864078	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1475451	20.55			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	DUP-02	SDG No.:	T4272
Lab Sample ID:	T4272-06	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082711.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	1.8		1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	5.7		1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	1.4		1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	1.3		1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	1.4		1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	DUP-02	SDG No.:	T4272
Lab Sample ID:	T4272-06	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082711.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	1.1		1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	8.93	89 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.23	92 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.32	93 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	9.58	96 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2846454	7.94			
540-36-3	1,4-Difluorobenzene	4148741	9.26			
3114-55-4	Chlorobenzene-d5	3429958	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1670361	20.55			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	FB-081705	SDG No.:	T4272
Lab Sample ID:	T4272-15	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082706.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	0.17	U	1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.09	U	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	0.12	U	1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

U = Not Detected
RL = Reporting Limit
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E = Value Exceeds Calibration Range

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	FB-081705	SDG No.:	T4272
Lab Sample ID:	T4272-15	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082706.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	1.1		1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	8.51	85 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	8.5	85 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	8.37	84 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	8.72	87 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	3060690	7.93			
540-36-3	1,4-Difluorobenzene	4519169	9.26			
3114-55-4	Chlorobenzene-d5	3697957	15.21			
3855-82-1	1,4-Dichlorobenzene-d4	1838066	20.55			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/15/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	TB-081605	SDG No.:	T4272
Lab Sample ID:	T4272-01	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082705.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L
74-87-3	Chloromethane	0.08	U	1.0	0.08	ug/L
75-01-4	Vinyl chloride	0.09	U	1.0	0.09	ug/L
74-83-9	Bromomethane	0.18	U	1.0	0.18	ug/L
75-00-3	Chloroethane	0.46	U	1.0	0.46	ug/L
75-69-4	Trichlorofluoromethane	0.10	U	1.0	0.10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.13	U	1.0	0.13	ug/L
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19	ug/L
67-64-1	Acetone	1.6	U	5.0	1.6	ug/L
75-15-0	Carbon disulfide	0.11	U	1.0	0.11	ug/L
1634-04-4	Methyl tert-butyl Ether	0.22	U	1.0	0.22	ug/L
79-20-9	Methyl Acetate	0.16	U	1.0	0.16	ug/L
75-09-2	Methylene Chloride	0.42	U	1.0	0.42	ug/L
156-60-5	trans-1,2-Dichloroethene	0.10	U	1.0	0.10	ug/L
75-34-3	1,1-Dichloroethane	0.17	U	1.0	0.17	ug/L
110-82-7	Cyclohexane	0.15	U	1.0	0.15	ug/L
78-93-3	2-Butanone	0.23	U	5.0	0.23	ug/L
56-23-5	Carbon Tetrachloride	0.16	U	1.0	0.16	ug/L
156-59-2	cis-1,2-Dichloroethene	0.09	U	1.0	0.09	ug/L
67-66-3	Chloroform	0.16	U	1.0	0.16	ug/L
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14	ug/L
71-43-2	Benzene	0.15	U	1.0	0.15	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L
79-01-6	Trichloroethene	0.12	U	1.0	0.12	ug/L
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15	ug/L
75-27-4	Bromodichloromethane	0.14	U	1.0	0.14	ug/L
108-10-1	4-Methyl-2-Pentanone	0.46	U	5.0	0.46	ug/L
108-88-3	Toluene	0.11	U	1.0	0.11	ug/L
10061-02-6	t-1,3-Dichloropropene	0.10	U	1.0	0.10	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.12	U	1.0	0.12	ug/L
79-00-5	1,1,2-Trichloroethane	0.11	U	1.0	0.11	ug/L

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N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/15/05
Project:	NAS JRB Willow Grove	Date Received:	8/18/05
Client Sample ID:	TB-081605	SDG No.:	T4272
Lab Sample ID:	T4272-01	Matrix:	WATER
Analytical Method:	8260-Low	% Moisture:	100
Sample Wt/Wol:	25.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VF082705.D	1	8/27/05	VF082005

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
591-78-6	2-Hexanone	0.57	U	5.0	0.57	ug/L
124-48-1	Dibromochloromethane	0.13	U	1.0	0.13	ug/L
106-93-4	1,2-Dibromoethane	0.12	U	1.0	0.12	ug/L
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12	ug/L
108-90-7	Chlorobenzene	0.11	U	1.0	0.11	ug/L
100-41-4	Ethyl Benzene	0.11	U	1.0	0.11	ug/L
126777-61-2	m&p-Xylenes	0.24	U	1.0	0.24	ug/L
95-47-6	o-Xylene	0.13	U	1.0	0.13	ug/L
100-42-5	Styrene	0.11	U	1.0	0.11	ug/L
75-25-2	Bromoform	0.09	U	1.0	0.09	ug/L
98-82-8	Isopropylbenzene	0.12	U	1.0	0.12	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.09	U	1.0	0.09	ug/L
541-73-1	1,3-Dichlorobenzene	0.10	U	1.0	0.10	ug/L
106-46-7	1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L
95-50-1	1,2-Dichlorobenzene	0.08	U	1.0	0.08	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.20	U	1.0	0.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.08	U	1.0	0.08	ug/L
1330-20-7	Total Xylenes	0.37	U	2.0	0.37	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	9.34	93 %	72 - 119		SPK: 10
1868-53-7	Dibromofluoromethane	9.73	97 %	85 - 115		SPK: 10
2037-26-5	Toluene-d8	9.75	98 %	81 - 120		SPK: 10
460-00-4	4-Bromofluorobenzene	10.1	101 %	76 - 119		SPK: 10
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2954167	7.93			
540-36-3	1,4-Difluorobenzene	4246481	9.26			
3114-55-4	Chlorobenzene-d5	3498575	15.20			
3855-82-1	1,4-Dichlorobenzene-d4	1778551	20.56			

U = Not Detected
RL = Reporting Limit
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E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-3900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW01-I	SDG No.:	T4272
Lab Sample ID:	T4272-09	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020649.D	1	8/19/2005	8/27/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	98442	7.56			
1146-65-2	Naphthalene-d8	278494	9.97			
15067-26-2	Acenaphthene-d10	186665	13.47			
1517-22-2	Phenanthrene-d10	315715	16.46			
1719-03-5	Chrysene-d12	319004	21.79			
1520-96-3	Perylene-d12	335591	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW02-S	SDG No.:	T4272
Lab Sample ID:	T4272-08	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	950.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020648.D	1	8/19/2005	8/27/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	97580	7.56			
1146-65-2	Naphthalene-d8	269240	9.97			
15067-26-2	Acenaphthene-d10	184091	13.47			
1517-22-2	Phenanthrene-d10	309347	16.46			
1719-03-5	Chrysene-d12	330316	21.80			
1520-96-3	Perylene-d12	344674	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW03-I	SDG No.:	T4272
Lab Sample ID:	T4272-04	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Wol:	970.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020644.D	1	8/19/2005	8/26/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106278	7.56			
1146-65-2	Naphthalene-d8	305152	9.96			
15067-26-2	Acenaphthene-d10	200605	13.47			
1517-22-2	Phenanthrene-d10	343662	16.45			
1719-03-5	Chrysene-d12	356326	21.80			
1520-96-3	Perylene-d12	365511	25.17			

U = Not Detected
RL = Reporting Limit
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B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW03-S	SDG No.:	T4272
Lab Sample ID:	T4272-05	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020645.D	1	8/19/2005	8/26/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	99863	7.56			
1146-65-2	Naphthalene-d8	267807	9.96			
15067-26-2	Acenaphthene-d10	182541	13.46			
1517-22-2	Phenanthrene-d10	311371	16.45			
1719-03-5	Chrysene-d12	321053	21.80			
1520-96-3	Perylene-d12	334496	25.17			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW04-I	SDG No.:	T4272
Lab Sample ID:	T4272-02	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Wol:	950.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020642.D	1	8/19/2005	8/26/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	130463	7.56			
1146-65-2	Naphthalene-d8	404933	9.96			
15067-26-2	Acenaphthene-d10	277141	13.46			
1517-22-2	Phenanthrene-d10	466003	16.45			
1719-03-5	Chrysene-d12	444755	21.80			
1520-96-3	Perylene-d12	451508	25.17			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW04-S	SDG No.:	T4272
Lab Sample ID:	T4272-03	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Wol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020643.D	1	8/19/2005	8/26/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128049	7.55			
1146-65-2	Naphthalene-d8	372688	9.96			
15067-26-2	Acenaphthene-d10	245919	13.46			
1517-22-2	Phenanthrene-d10	439431	16.45			
1719-03-5	Chrysene-d12	432722	21.80			
1520-96-3	Perylene-d12	440965	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW09-I	SDG No.:	T4272
Lab Sample ID:	T4272-14	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020658.D	1	8/19/2005	8/27/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	108118	7.56			
1146-65-2	Naphthalene-d8	299298	9.97			
15067-26-2	Acenaphthene-d10	197087	13.46			
1517-22-2	Phenanthrene-d10	329734	16.46			
1719-03-5	Chrysene-d12	337331	21.80			
1520-96-3	Perylene-d12	346967	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW09-S	SDG No.:	T4272
Lab Sample ID:	T4272-13	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020653.D	1	8/19/2005	8/27/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	98447	7.56			
1146-65-2	Naphthalene-d8	285674	9.96			
15067-26-2	Acenaphthene-d10	188642	13.47			
1517-22-2	Phenanthrene-d10	312305	16.46			
1719-03-5	Chrysene-d12	312823	21.80			
1520-96-3	Perylene-d12	331937	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW09-SI	SDG No.:	T4272
Lab Sample ID:	T4272-10	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020650.D	1	8/19/2005	8/27/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	95927	7.56			
1146-65-2	Naphthalene-d8	265974	9.96			
15067-26-2	Acenaphthene-d10	184267	13.46			
1517-22-2	Phenanthrene-d10	309602	16.45			
1719-03-5	Chrysene-d12	309095	21.80			
1520-96-3	Perylene-d12	335966	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 264 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	05-MW12-I	SDG No.:	T4272
Lab Sample ID:	T4272-07	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020647.D	1	8/19/2005	8/27/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	94715	7.56			
1146-65-2	Naphthalene-d8	268761	9.96			
15067-26-2	Acenaphthene-d10	178629	13.47			
1517-22-2	Phenanthrene-d10	310565	16.46			
1719-03-5	Chrysene-d12	320369	21.79			
1520-96-3	Perylene-d12	327362	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/16/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	DUP-02	SDG No.:	T4272
Lab Sample ID:	T4272-06	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	950.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020646.D	1	8/19/2005	8/26/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	102794	7.56			
1146-65-2	Naphthalene-d8	283634	9.96			
15067-26-2	Acenaphthene-d10	190560	13.46			
1517-22-2	Phenanthrene-d10	330742	16.45			
1719-03-5	Chrysene-d12	344379	21.79			
1520-96-3	Perylene-d12	359413	25.18			

U = Not Detected
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MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	8/17/2005
Project:	NAS JRB Willow Grove	Date Received:	8/18/2005
Client Sample ID:	FB-081705	SDG No.:	T4272
Lab Sample ID:	T4272-15	Matrix:	WATER
Analytical Method:	~~DIOX~~ 8270	% Moisture:	100
Sample Wt/Vol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA020659.D	1	8/19/2005	8/27/2005	BA082305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.1	U	2.1	2.1	ug/L
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	107866	7.56			
1146-65-2	Naphthalene-d8	304465	9.97			
15067-26-2	Acenaphthene-d10	198214	13.46			
1517-22-2	Phenanthrene-d10	341169	16.46			
1719-03-5	Chrysene-d12	341786	21.80			
1520-96-3	Perylene-d12	359387	25.18			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

APPENDIX C

Support Documentation

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. T4272

COC Number 053890

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tetra Tech NUS
ADDRESS: 600 Clark Avenue Suite 3
CITY: King of Prussia STATE: PA ZIP: 19406
ATTENTION: Russ Turner
PHONE: 610 491 9688 FAX: 610 491 9645

CLIENT PROJECT INFORMATION

PROJECT NAME: NAS JRB Willow Grove
PROJECT NO.: 2192 LOCATION: Willow Grove, PA
PROJECT MANAGER: Russ Turner
e-mail: rturner@ttnus.com
PHONE: 610 491 9688 FAX: 610 491 9645

CLIENT BILLING INFORMATION

BILL TO: Tetra Tech NUS PO#:
7 Foster Plaza
ADDRESS: 661 Andersen Drive
CITY: Pittsburgh STATE: PA ZIP: 15220
ATTENTION: Accounts Payable PHONE: 412 921 8100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

40ml VOA vials HCl
TCL VOC
1 liter Amber Glass
1,4-Dioxane

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 HCl	2 ICE	3	4	5	6	7	8	9	COMMENTS
1. 1	TB-081605	Aq		X	08/16/05	0700	3	3	3 GW 8/17/05								Trip Blank Laboratory supplied
2. 2	05-MW04-I	GW		X	08/16/05	1305	4	3	1								
3. 3	05-MW04-S	GW		X	8/16/05	1225	4	3	1								
4. 4	05-MW03-I	GW		X	8/16/05	1545	4	3	1								
5. 5	05-MW03-S	GW		X	8/16/05	1550	4	3	1								
6. 6	Dup-02	GW		X	8/16/05	1735	4	3	1								
7. 7	05-MW12-I	GW		X	8/17/05	1105	4	3	1								
8. 8	05-MW02-S	GW		X	8/17/05	1110	4	3	1								
9. 9	05-MW01-I	GW		X	8/17/05	1325	4	3	1								
10. 10,11,12	05-MW09-SI	GW		X	8/17/05	1330	12	9	3								Do MS/MSD

Specify Preservatives: A-HCl B-HNO_3 C-H_2SO_4 D-NaOH E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	8/17/05 1900	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 2.
ED BY: [signature]	DATE/TIME: 10:00 8-18-05	RECEIVED FOR LAB BY: 3. [signature]

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: YES

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

201

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. T4272

COC Number 053891

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tetra Tech NUS

ADDRESS: 600 Clark Avenue Suite 3

CITY: King of Prussia STATE: PA ZIP: 19406

ATTENTION: Russ Turner

PHONE: 610 491 9688 FAX: 610 491 9645

CLIENT PROJECT INFORMATION

PROJECT NAME: NASJRB Willow Grove

PROJECT NO.: 2192 LOCATION: Willow Grove PA

PROJECT MANAGER: Russ Turner

e-mail: R turner at ttnus.com

PHONE: 6 FAX: 610 491 9645

CLIENT BILLING INFORMATION

BILL TO: Tetra Tech NUS PO#:

ADDRESS: 661 Anderson Drive 1 Foster Plaza

CITY: Pittsburgh STATE: PA ZIP: 15220

ATTENTION: Accounts Payable PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *

HARD COPY: _____ DAYS *

EDD: _____ DAYS *

* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD FORMAT _____
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other _____

ANALYSIS

1 40 ml VOA Vials HCl
2 TCL VOC
3 1 Liter Amber Glass
4 4-Dioxane
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (HCl)	2 (Ice)	3	4	5	6	7	8	9	COMMENTS
1. 13	05-MW09-S	GW		X	8/17/05	1610	4	3	1								
2. 14	05-MW09-I	GW		X	8/17/05	1600	4	3	1								
3. 15	FB-081705	AQ		X	8/17/05	1620	4	3	1								Field Blank Water From Lab
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl B-HNO_3
C-H_2SO_4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	8/17/05 1900	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 2.
RECEIVED BY: REX	DATE/TIME: 8-18-05 10:00	RECEIVED FOR LAB BY: 3. [signature]

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant

MeOH extraction requires an additional 4 oz jar for percent solid.

Comments:

Cooler Temp. 4°C

Ice In Cooler?: Yes

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

202

Revision 4/2005

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NAS JRB Willow Grove
Project # N/A
Chemtech Project # T4272

A. Number of Samples and Date of Receipt:
15 Water samples were received on 8/18/05.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1, and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA F were done using GC column RTX624, which is 75 meters, 0.53 ID, 3.0 df, Restek Cat. #10974. The Trap was supplied by Supelco, VOCARB 3000, Tekmar 2000 Concentrator.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ Name: Krupa Dubey

Date: 9/8/05 Title: QA/QC

CHEMTECH

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NAS JRB Willow Grove
Project # N/A
Chemtech Project # T4272

A. Number of Samples and Date of Receipt:
15 Water samples were received on 8/18/05.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1, and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument MSBNA A using GC Column RTX-5 SILMS which is 30 meters, 0.32mm ID, 0.5um df, Catalog # 12739.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for 05-MW04-I and 05-MW12-I.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ Name: Krupa Dubey

Date: 9/8/05 Title: QA/QC

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: TETR04

Lab Cod : CHEM Case No.: T4162 SAS No.: T4162 SDG No.: T4162

Instrument ID: MSVOAF Calibration Date(s): 8/20/2005 8/20/2005

Heated Purge: (Y/N) N Calibration Time(s): 11:13 13:53

GC Column: RTX624 ID: 0.53 (mm)

LAB FILE ID: RRF001 = VF082002.D RRF004 = VF082003.D

RRF010 = VF082004.D RRF020 = VF082005.D RRF040 = VF082006.D

COMPOUND	RRF001	RRF004	RRF010	RRF020	RRF040	$\overline{RRF}$	% RSD	
Dichlorodifluoromethane	0.542	0.527	0.517	0.502	0.495	0.517	3.7	
Chloromethane *	0.333	0.317	0.326	0.315	0.320	0.322	2.3	*
Vinyl Chloride *	0.429	0.424	0.431	0.405	0.392	0.416	4.1	*
Bromomethane	0.262	0.237	0.223	0.215	0.204	0.228	9.8	
Chloroethane	0.240	0.222	0.177	0.130	0.115	0.177	31.0	
Trichlorofluoromethane	0.750	0.691	0.672	0.653	0.611	0.675	7.6	
1,1,2-Trichlorotrifluor	0.799	0.767	0.741	0.729	0.690	0.745	5.5	
1,1-Dichloroethene *	0.428	0.410	0.395	0.385	0.362	0.396	6.3	*
Acetone	0.024	0.019	0.017	0.016	0.015	0.018	19.8	
Carbon Disulfide	1.224	1.237	1.214	1.178	1.115	1.194	4.1	
Methyl tert-butyl Ether	0.476	0.504	0.465	0.493	0.457	0.479	4.1	
Methyl Acetate	0.093	0.088	0.079	0.083	0.078	0.084	7.5	
Methylene Chloride	0.499	0.371	0.326	0.328	0.309	0.367	21.1	
trans-1,2-Dichloroethen	0.451	0.450	0.434	0.440	0.432	0.441	2.0	
1,1-Dichloroethane *	0.747	0.752	0.731	0.744	0.707	0.736	2.5	*
Cyclohexane	0.838	0.850	0.805	0.791	0.742	0.805	5.3	
2-Butanone	0.060	0.068	0.062	0.066	0.059	0.063	6.1	
Carbon Tetrachloride *	0.505	0.575	0.467	0.438	0.429	0.483	12.3	*
cis-1,2-Dichloroethene	0.445	0.449	0.439	0.447	0.436	0.443	1.2	
Chloroform *	0.748	0.787	0.759	0.774	0.746	0.763	2.3	*
1,1,1-Trichloroethane *	0.733	0.744	0.716	0.723	0.713	0.726	1.8	*
Methylcyclohexane	0.678	0.655	0.632	0.624	0.596	0.637	4.9	
Benzene *	1.050	0.981	0.959	0.942	0.903	0.967	5.6	*
1,2-Dichloroethane *	0.181	0.185	0.168	0.175	0.166	0.175	4.7	*
Trichloroethene *	0.391	0.366	0.368	0.372	0.362	0.372	3.0	*
1,2-Dichloropropane *	0.340	0.323	0.308	0.311	0.288	0.314	6.1	*
Bromodichloromethane *	0.376	0.392	0.381	0.388	0.368	0.381	2.5	*
4-Methyl-2-Pentanone	0.083	0.090	0.083	0.087	0.075	0.084	6.7	
Toluene *	0.729	0.717	0.702	0.694	0.660	0.700	3.8	*
t-1,3-Dichloropropene *	0.257	0.283	0.272	0.280	0.260	0.270	4.3	*
cis-1,3-Dichloropropene *	0.401	0.421	0.405	0.421	0.388	0.407	3.5	*
1,1,2-Trichloroethane *	0.179	0.184	0.174	0.175	0.158	0.174	5.6	*
2-Hexanone	0.051	0.055	0.053	0.056	0.048	0.053	6.1	
Dibromochloromethane *	0.219	0.242	0.232	0.244	0.232	0.234	4.3	*
1,2-Dibromoethane	0.195	0.211	0.203	0.207	0.192	0.202	4.0	
Tetrachloroethene *	0.413	0.385	0.386	0.377	0.371	0.386	4.2	*
Chlorobenzene *	1.027	1.003	0.967	0.989	0.942	0.986	3.3	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: TETR04

Lab Code: CHEM Case No.: T4272 SAS No.: T4272 SDG No.: T4272

Instrument ID: MSVOAF Calibration Date/Time: 8/27/2005 13:22

Lab File ID: VF082702.D Init. Calib. Date(s): 8/20/2005 8/20/2005

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:13 13:53

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.517	0.498		-3.7	
Chloromethane	0.322	0.281	0.100	-12.7	
Vinyl Chloride	0.416	0.433		4.1	20.0
Bromomethane	0.228	0.217		-4.8	
Chloroethane	0.177	0.196		10.7	
Trichlorofluoromethane	0.675	0.717		6.2	
1,1,2-Trichlorotrifluoroethane	0.745	0.777		4.3	
1,1-Dichloroethene	0.396	0.409		3.3	20.0
Acetone	0.018	0.016		-11.1	
Carbon Disulfide	1.194	1.221		2.3	
Methyl tert-butyl Ether	0.479	0.447		-6.7	
Methyl Acetate	0.084	0.080		-4.8	
Methylene Chloride	0.367	0.329		-10.4	
trans-1,2-Dichloroethene	0.441	0.449		1.8	
1,1-Dichloroethane	0.736	0.762	0.100	3.5	
Cyclohexane	0.805	0.832		3.4	
2-Butanone	0.063	0.059		-6.3	
Carbon Tetrachloride	0.483	0.489		1.2	
cis-1,2-Dichloroethene	0.443	0.456		2.9	
Chloroform	0.763	0.769		0.8	20.0
1,1,1-Trichloroethane	0.726	0.753		3.7	
Methylcyclohexane	0.637	0.669		5.0	
Benzene	0.967	1.007		4.1	
1,2-Dichloroethane	0.175	0.172		-1.7	
Trichloroethene	0.372	0.380		2.2	
1,2-Dichloropropane	0.314	0.324		3.2	20.0
Bromodichloromethane	0.381	0.391		2.6	
4-Methyl-2-Pentanone	0.084	0.080		-4.8	
Toluene	0.700	0.716		2.3	20.0
t-1,3-Dichloropropene	0.270	0.274		1.5	
cis-1,3-Dichloropropene	0.407	0.414		1.7	
1,1,2-Trichloroethane	0.174	0.173		-0.6	
2-Hexanone	0.053	0.050		-5.7	
Dibromochloromethane	0.234	0.236		0.9	
1,2-Dibromoethane	0.202	0.199		-1.5	
Tetrachloroethene	0.386	0.420		8.8	
Chlorobenzene	0.986	1.040	0.300	5.5	
Ethyl Benzene	0.567	0.607		7.1	20.0
m&p-Xylenes	0.685	0.749		9.3	
o-Xylene	0.631	0.677		7.3	
Styrene	1.024	1.093		6.7	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: TETR04

Lab Code: CHEM Case No.: T4272 SAS No.: T4272 SDG No.: T4272

Instrument ID: MSVOAF Calibration Date/Time: 8/28/2005 19:59

Lab File ID: VF082802.D Init. Calib. Date(s): 8/20/2005 8/20/2005

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:13 13:53

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.517	0.454		-12.2	
Chloromethane	0.322	0.264	0.100	-18.0	
Vinyl Chloride	0.416	0.398		-4.3	20.0
Bromomethane	0.228	0.245		7.5	
Chloroethane	0.177	0.197		11.3	
Trichlorofluoromethane	0.675	0.689		2.1	
1,1,2-Trichlorotrifluoroethane	0.745	0.820		10.1	
1,1-Dichloroethene	0.396	0.428		8.1	20.0
Acetone	0.018	0.020		11.1	
Carbon Disulfide	1.194	1.250		4.7	
Methyl tert-butyl Ether	0.479	0.533		11.3	
Methyl Acetate	0.084	0.104		23.8	
Methylene Chloride	0.367	0.375		2.2	
trans-1,2-Dichloroethene	0.441	0.487		10.4	
1,1-Dichloroethane	0.736	0.805	0.100	9.4	
Cyclohexane	0.805	0.815		1.2	
2-Butanone	0.063	0.070		11.1	
Carbon Tetrachloride	0.483	0.515		6.6	
cis-1,2-Dichloroethene	0.443	0.480		8.4	
Chloroform	0.763	0.823		7.9	20.0
1,1,1-Trichloroethane	0.726	0.768		5.8	
Methylcyclohexane	0.637	0.682		7.1	
Benzene	0.967	1.082		11.9	
1,2-Dichloroethane	0.175	0.204		16.6	
Trichloroethene	0.372	0.422		13.4	
1,2-Dichloropropane	0.314	0.344		9.6	20.0
Bromodichloromethane	0.381	0.438		15.0	
4-Methyl-2-Pentanone	0.084	0.095		13.1	
Toluene	0.700	0.785		12.1	20.0
t-1,3-Dichloropropene	0.270	0.316		17.0	
cis-1,3-Dichloropropene	0.407	0.465		14.3	
1,1,2-Trichloroethane	0.174	0.203		16.7	
2-Hexanone	0.053	0.059		11.3	
Dibromochloromethane	0.234	0.279		19.2	
1,2-Dibromoethane	0.202	0.239		18.3	
Tetrachloroethene	0.386	0.581		50.5	
Chlorobenzene	0.986	1.142	0.300	15.8	
Ethyl Benzene	0.567	0.649		14.5	20.0
m&p-Xylenes	0.685	0.800		16.8	
o-Xylene	0.631	0.735		16.5	
Styrene	1.024	1.211		18.3	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: TETR04

Lab Code: CHEM Case No.: T4272 SAS No.: T4272 SDG No.: T4272

Instrument ID: MSVOAF Calibration Date/Time: 8/28/2005 19:59

Lab File ID: VF082802.D Init. Calib. Date(s): 8/20/2005 8/20/2005

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:13 13:53

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF010	MIN RRF	%D	MAX%D
Bromoform	0.151	0.193	0.100	27.8	
Isopropylbenzene	4.125	4.491		8.9	
1,1,2,2-Tetrachloroethane	0.542	0.583	0.300	7.6	
1,3-Dichlorobenzene	1.630	1.876		15.1	
1,4-Dichlorobenzene	1.573	1.805		14.7	
1,2-Dichlorobenzene	1.297	1.486		14.6	
1,2-Dibromo-3-Chloropropane	0.083	0.090		8.4	
1,2,4-Trichlorobenzene	0.972	1.177		21.1	
1,4-Dioxane	0.001	0.001		0.0	
1,2-Dichloroethane-d4	0.229	0.227		-0.9	
Dibromofluoromethane	0.353	0.372		5.4	
Toluene-d8	1.053	1.057		0.4	
4-Bromofluorobenzene	0.521	0.540		3.6	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: TETR04

Lab Code: CHEM Case No.: T4272 SAS No.: T4272 SDG No.: T4272

Instrument ID: MSVOAF Calibration Date/Time: 8/29/2005 11:53

Lab File ID: VF082902.D Init. Calib. Date(s): 8/20/2005 8/20/2005

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:13 13:53

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.517	0.492		-4.8	
Chloromethane	0.322	0.299	0.100	-7.1	
Vinyl Chloride	0.416	0.434		4.3	20.0
Bromomethane	0.228	0.220		-3.5	
Chloroethane	0.177	0.186		5.1	
Trichlorofluoromethane	0.675	0.724		7.3	
1,1,2-Trichlorotrifluoroethane	0.745	0.817		9.7	
1,1-Dichloroethene	0.396	0.426		7.6	20.0
Acetone	0.018	0.016		-11.1	
Carbon Disulfide	1.194	1.242		4.0	
Methyl tert-butyl Ether	0.479	0.480		0.2	
Methyl Acetate	0.084	0.095		13.1	
Methylene Chloride	0.367	0.354		-3.5	
trans-1,2-Dichloroethene	0.441	0.459		4.1	
1,1-Dichloroethane	0.736	0.779	0.100	5.8	
Cyclohexane	0.805	0.849		5.5	
2-Butanone	0.063	0.064		1.6	
Carbon Tetrachloride	0.483	0.505		4.6	
cis-1,2-Dichloroethene	0.443	0.470		6.1	
Chloroform	0.763	0.803		5.2	20.0
1,1,1-Trichloroethane	0.726	0.767		5.6	
Methylcyclohexane	0.637	0.665		4.4	
Benzene	0.967	1.022		5.7	
1,2-Dichloroethane	0.175	0.178		1.7	
Trichloroethene	0.372	0.385		3.5	
1,2-Dichloropropane	0.314	0.326		3.8	20.0
Bromodichloromethane	0.381	0.398		4.5	
4-Methyl-2-Pentanone	0.084	0.085		1.2	
Toluene	0.700	0.739		5.6	20.0
t-1,3-Dichloropropene	0.270	0.282		4.4	
cis-1,3-Dichloropropene	0.407	0.426		4.7	
1,1,2-Trichloroethane	0.174	0.181		4.0	
2-Hexanone	0.053	0.053		0.0	
Dibromochloromethane	0.234	0.249		6.4	
1,2-Dibromoethane	0.202	0.210		4.0	
Tetrachloroethene	0.386	0.438		13.5	
Chlorobenzene	0.986	1.061	0.300	7.6	
Ethyl Benzene	0.567	0.618		9.0	20.0
m&p-Xylenes	0.685	0.769		12.3	
o-Xylene	0.631	0.700		10.9	
Styrene	1.024	1.111		8.5	

Surrogate Summary
SW-846

SDG No.: T4272
Client: Tetra Tech NUS, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
PB07078B	SBLK01	Phenol-d5	300	39.4	13		10.00	94.00
		2-Chlorophenol-d4	300	139.75	47		20.00	130.00
		Nitrobenzene-d5	200	122.02	61		35.00	114.00
		2-Fluorobiphenyl	200	116.8	58		43.00	116.00
		2,4,6-Tribromophenol	300	156.17	52		10.00	123.00
		Terphenyl-d14	200	125.94	63		33.00	141.00
PB07078BS	SLCS01	Phenol-d5	300	46.72	16		10.00	94.00
		2-Chlorophenol-d4	300	150.22	50		20.00	130.00
		Nitrobenzene-d5	200	143.22	72		35.00	114.00
		2-Fluorobiphenyl	200	142.69	71		43.00	116.00
		2,4,6-Tribromophenol	300	192.57	64		10.00	123.00
		Terphenyl-d14	200	138.72	69		33.00	141.00
T4272-02	05-MW04-I	Phenol-d5	300	16.66	6	*	10.00	94.00
		2-Chlorophenol-d4	300	43.1	14	*	20.00	130.00
		Nitrobenzene-d5	200	78.68	39		35.00	114.00
		2-Fluorobiphenyl	200	78.65	39	*	43.00	116.00
		2,4,6-Tribromophenol	300	43.34	14		10.00	123.00
		Terphenyl-d14	200	72.99	36		33.00	141.00
T4272-03	05-MW04-S	Phenol-d5	300	39.23	13		10.00	94.00
		2-Chlorophenol-d4	300	140.8	47		20.00	130.00
		Nitrobenzene-d5	200	121.2	61		35.00	114.00
		2-Fluorobiphenyl	200	121.39	61		43.00	116.00
		2,4,6-Tribromophenol	300	163.22	54		10.00	123.00
		Terphenyl-d14	200	120.16	60		33.00	141.00
T4272-04	05-MW03-I	Phenol-d5	300	45.36	15		10.00	94.00
		2-Chlorophenol-d4	300	187.57	63		20.00	130.00
		Nitrobenzene-d5	200	149.55	75		35.00	114.00
		2-Fluorobiphenyl	200	150.76	75		43.00	116.00
		2,4,6-Tribromophenol	300	222.92	74		10.00	123.00
		Terphenyl-d14	200	141.3	71		33.00	141.00
T4272-05	05-MW03-S	Phenol-d5	300	49.71	17		10.00	94.00
		2-Chlorophenol-d4	300	195.24	65		20.00	130.00
		Nitrobenzene-d5	200	183.05	92		35.00	114.00
		2-Fluorobiphenyl	200	173.28	87		43.00	116.00
		2,4,6-Tribromophenol	300	245.39	82		10.00	123.00
		Terphenyl-d14	200	146.88	73		33.00	141.00
T4272-06	DUP-02	Phenol-d5	300	45.77	15		10.00	94.00
		2-Chlorophenol-d4	300	175.46	58		20.00	130.00
		Nitrobenzene-d5	200	158.14	79		35.00	114.00
		2-Fluorobiphenyl	200	152.99	76		43.00	116.00
		2,4,6-Tribromophenol	300	234.79	78		10.[illegible]	[illegible]00
		Terphenyl-d14	200	143.27	72		33.	[illegible]00