TETRA TECH NUS

PHIL- 21204

TO: RUSS TURNER **DATE:** JULY 10, 2007

FROM: MEGAN RITCHIE **COPIES:** FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC, SVOC, AND PESTICIDE/PCB
NAS JRB WILLOW GROVE SITE 3, WILLOW GROVE, PENNSYLVANIA
SDG NO. C7E090120

SAMPLES: **1/Aqueous/**

TB-050807

2/Solid/

03TP18-0203-01 03TP18-0203-04

OVERVIEW

The sample set for the NAS JRB Willow Grove Site 3 Test Pits – Willow Grove, PA, SDG C7E090120 consists of two solid environmental samples (designated 03TP18-), and one field quality control (QC) blank (designated TB-). No samples were designated for matrix spike/matrix spike duplicate (MS/MSD) analyses. One field duplicate pair (03TP18-0203-01/03TP18-0203-04) was included in this sample set. All samples except the trip blank were analyzed for select Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), pesticides, and Polychlorinated Biphenyls (PCBs). The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on May 8, 2007 and analyzed by Severn Trent Laboratories (STL) of Pittsburgh, Pennsylvania.

All analyses were conducted using EPA SW-846 Methods. VOCs were analyzed by 8260B, SVOCs by 8270C, pesticides by 8081A, and PCBs by 8082.

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, field duplicate results, internal standards performance, compound identification, and compound quantitation.

MINOR PROBLEMS

- The following table summarizes the analytes detected as contaminants in the laboratory blank at the maximum concentration indicated:

Compound	Maximum Concentration	Action Level
Methylene Chloride	1.6 ug/Kg	16 ug/Kg

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

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

- The detected and non-detected VOC results for soil sample 03TP18-0203-04 were qualified as estimated (J/UJ) because the system monitoring compound 1,2-dichloroethane-d_4 recovery was outside the lower control limit of 70%, respectively. The first analysis of this sample exhibited two system monitoring compounds below the lower QC limit, therefore, the reanalysis will be reported for this sample.
- The internal standard area for chrysene-d_{12} for sample 03TP18-0203-04 was below the lower QC limit. The non-detected compound results associated with this internal standard were qualified as estimated (UJ). The sample was reanalyzed and exhibited the same internal standard outlier. The results from the reanalysis were reported.
- The percent difference (%D) between the detected concentrations on two columns exceeded the QC criteria of ±25% for pesticide compounds in samples 03TP18-0203-01 and 03TP18-0203-04. These compounds were qualified as estimated (J).
- Positive results at concentrations less than the reporting limits (RLs) were qualified as estimated (J).

N t s

Volatiles

The continuing calibration percent difference (%D) for chloroethane and trichlorofluoromethane exceeded the QC criteria of 25%. No qualifications were made because there were no positive detections of these compounds in the associated samples.

The MS/MSD recoveries for dibromomethane were below the lower QC limit of 75%. No action was taken on MS/MSD data alone.

The MS/MSD Relative Percent Difference (RPD) for chloroethane was above the QC limit of 20%. No action was taken on MS/MSD data alone.

Semivolatiles

The initial calibration RSD for benzaldehyde exceeded the 30% criteria. No qualifications were made because there were no positive detections of these compound.

The continuing calibration percent difference (%D) for caprolactam exceeded the 25% criteria. No qualifications were made because there were no positive detections for this compound.

Several MS/MSD recoveries were outside QC limits. No action was taken on MS/MSD samples alone.

Pesticides

The retention times (RTs) for surrogate decachlorobiphenyl were outside QC limits in the initial calibration. The continuing calibration and sample surrogate retention times were within QC limits. No action was taken.

EXECUTIVE SUMMARY

Laboratory Performance: Methylene chloride was detected in the laboratory method blank. Two VOC compounds %Ds exceeded continuing calibration criteria. One SVOC compound RSD exceeded initial calibration criteria. One SVOC compound %D exceeded continuing calibration criteria. Pesticide surrogate RTs were outside RT window criteria in calibration runs.

Other Factors Affecting Data Quality: One VOC system monitoring compound recovery was outside criteria for one sample. One sample had an internal standard area below the lower QC limit. The detected pesticide concentrations between two columns exceeded QC criteria for five pesticide compounds. One VOC MS/MSD recovery was outside QC criteria and one compound had an MS/MSD RPD outside criteria. Several SVOC MS/MSD recoveries were outside QC criteria.

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

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

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

Megan N. Ritchie

Megan N. Ritchie
Chemist

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

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Laboratory Analytical Results
3. Appendix C – Support Documentation

APPENDIX A

Qualified Analytical Results

PROJ_NO: 2192

SDG: C7E090120 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP18-0203-01
samp_date	5/8/2007
lab_id	C7E090120002
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.5	U	
1,1,2,2-TETRACHLOROETHANE	5.5	U	
1,1,2-TRICHLOROETHANE	5.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.5	U	
1,1-DICHLOROETHANE	5.5	U	
1,1-DICHLOROETHENE	5.5	U	
1,2,3-TRICHLOROBENZENE	5.5	U	
1,2,4-TRICHLOROBENZENE	5.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.5	U	
1,2-DIBROMOETHANE	5.5	U	
1,2-DICHLOROBENZENE	5.5	U	
1,2-DICHLOROETHANE	5.5	U	
1,2-DICHLOROPROPANE	5.5	U	
1,3-DICHLOROBENZENE	5.5	U	
1,4-DICHLOROBENZENE	5.5	U	
2-BUTANONE	5.5	U	
2-HEXANONE	5.5	U	
4-METHYL-2-PENTANONE	5.5	U	
ACETONE	22	U	
BENZENE	5.5	U	
BROMOCHLOROMETHANE	5.5	U	
BROMODICHLOROMETHANE	5.5	U	
BROMOFORM	5.5	U	
BROMOMETHANE	5.5	U	
CARBON DISULFIDE	5.5	U	
CARBON TETRACHLORIDE	5.5	U	
CHLOROBENZENE	5.5	U	
CHLORODIBROMOMETHANE	5.5	U	
CHLOROETHANE	5.5	U	
CHLOROFORM	5.5	U	
CHLOROMETHANE	5.5	U	
CIS-1,2-DICHLOROETHENE	5.5	U	

nsample	03TP18-0203-01
samp_date	5/8/2007
lab_id	C7E090120002
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.5	U	
CYCLOHEXANE	5.5	U	
DICHLORODIFLUOROMETHANE	5.5	U	
ETHYLBENZENE	5.5	U	
ISOPROPYLBENZENE	5.5	U	
M+P-XYLENES	11	U	
METHYL ACETATE	5.5	U	
METHYL CYCLOHEXANE	5.5	U	
METHYL TERT-BUTYL ETHER	5.5	U	
METHYLENE CHLORIDE	2.4	B	A
O-XYLENE	5.5	U	
STYRENE	5.5	U	
TETRACHLOROETHENE	5.5	U	
TOLUENE	5.5	U	
TRANS-1,2-DICHLOROETHENE	5.5	U	
TRANS-1,3-DICHLOROPROPENE	5.5	U	
TRICHLOROETHENE	5.5	U	
TRICHLOROFLUOROMETHANE	5.5	U	
VINYL CHLORIDE	5.5	U	

nsample	03TP18-0203-04RE
samp_date	5/8/2007
lab_id	C7E090120003
qc_type	NM
units	UG/KG
Pct_Solids	80.0
DUP_OF:	03TP18-0203-01

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.5	UJ	R
1,1,2,2-TETRACHLOROETHANE	5.5	UJ	R
1,1,2-TRICHLOROETHANE	5.5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE	5.5	UJ	R
1,1-DICHLOROETHANE	5.5	UJ	R
1,1-DICHLOROETHENE	5.5	UJ	R
1,2,3-TRICHLOROBENZENE	5.5	UJ	R
1,2,4-TRICHLOROBENZENE	5.5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE	5.5	UJ	R
1,2-DIBROMOETHANE	5.5	UJ	R
1,2-DICHLOROBENZENE	5.5	UJ	R
1,2-DICHLOROETHANE	5.5	UJ	R
1,2-DICHLOROPROPANE	5.5	UJ	R
1,3-DICHLOROBENZENE	5.5	UJ	R
1,4-DICHLOROBENZENE	5.5	UJ	R
2-BUTANONE	5.5	UJ	R
2-HEXANONE	5.5	UJ	R
4-METHYL-2-PENTANONE	5.5	UJ	R
ACETONE	22	UJ	R
BENZENE	5.5	UJ	R
BROMOCHLOROMETHANE	5.5	UJ	R
BROMODICHLOROMETHANE	5.5	UJ	R
BROMOFORM	5.5	UJ	R
BROMOMETHANE	5.5	UJ	R
CARBON DISULFIDE	5.5	UJ	R
CARBON TETRACHLORIDE	5.5	UJ	R
CHLOROBENZENE	5.5	UJ	R
CHLORODIBROMOMETHANE	5.5	UJ	R
CHLOROETHANE	5.5	UJ	R
CHLOROFORM	5.5	UJ	R
CHLOROMETHANE	5.5	UJ	R
CIS-1,2-DICHLOROETHENE	5.5	UJ	R

PROJ_NO: 2192

SDG: C7E090120 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP18-0203-04RE
samp_date	5/8/2007
lab_id	C7E090120003
qc_type	NM
units	UG/KG
Pct_Solids	80.0
DUP_OF:	03TP18-0203-01

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.5	UJ	R
CYCLOHEXANE	5.5	UJ	R
DICHLORODIFLUOROMETHANE	5.5	UJ	R
ETHYLBENZENE	5.5	UJ	R
ISOPROPYLBENZENE	5.5	UJ	R
M+P-XYLENES	11	UJ	R
METHYL ACETATE	5.5	UJ	R
METHYL CYCLOHEXANE	5.5	UJ	R
METHYL TERT-BUTYL ETHER	5.5	UJ	R
METHYLENE CHLORIDE	2.1	B	A
O-XYLENE	5.5	UJ	R
STYRENE	5.5	UJ	R
TETRACHLOROETHENE	5.5	UJ	R
TOLUENE	5.5	UJ	R
TRANS-1,2-DICHLOROETHENE	5.5	UJ	R
TRANS-1,3-DICHLOROPROPENE	5.5	UJ	R
TRICHLOROETHENE	5.5	UJ	R
TRICHLOROFLUOROMETHANE	5.5	UJ	R
VINYL CHLORIDE	5.5	UJ	R

PROJ_NO: 2192

SDG: C7E090120 MEDIA: WATER DATA FRACTION: OV

nsample	TB-050807	nsample	TB-050807
samp_date	5/8/2007	samp_date	5/8/2007
lab_id	C7E090120001	lab_id	C7E090120001
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROBENZENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	20	U	
BENZENE	5	U	
BROMOCHLOROMETHANE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	10	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 2192

SDG: C7E090120 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP18-0203-01	nsample	03TP18-0203-01	nsample	03TP18-0203-01
samp_date	5/8/2007	samp_date	5/8/2007	samp_date	5/8/2007
lab_id	C7E090120002	lab_id	C7E090120002	lab_id	C7E090120002
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	82.0	Pct_Solids	82.0	Pct_Solids	82.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	400	U	
1,2,4,5-TETRACHLOROBENZENE	400	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U	
2,3,4,6-TETRACHLOROPHENOL	400	U	
2,4,5-TRICHLOROPHENOL	400	U	
2,4,6-TRICHLOROPHENOL	400	U	
2,4-DICHLOROPHENOL	400	U	
2,4-DIMETHYLPHENOL	400	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	400	U	
2,6-DINITROTOLUENE	400	U	
2-CHLORONAPHTHALENE	400	U	
2-CHLOROPHENOL	400	U	
2-METHYLNAPHTHALENE	400	U	
2-METHYLPHENOL	400	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	400	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	400	U	
4-CHLORO-3-METHYLPHENOL	400	U	
4-CHLOROANILINE	400	U	
4-CHLOROPHENYL PHENYL ETHER	400	U	
4-METHYLPHENOL	400	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	400	U	
ACENAPHTHYLENE	400	U	
ACETOPHENONE	400	U	
ANTHRACENE	400	U	
ATRAZINE	400	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	400	U	
BENZO(A)ANTHRACENE	400	U	
BENZO(A)PYRENE	400	U	
BENZO(B)FLUORANTHENE	400	U	
BENZO(G,H,I)PERYLENE	400	U	
BENZO(K)FLUORANTHENE	400	U	
BIS(2-CHLOROETHOXY)METHANE	400	U	
BIS(2-CHLOROETHYL)ETHER	400	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U	
BUTYL BENZYL PHTHALATE	400	U	
CAPROLACTAM	400	U	
CARBAZOLE	400	U	
CHRYSENE	400	U	
DIBENZO(A,H)ANTHRACENE	400	U	
DIBENZOFURAN	400	U	
DIETHYL PHTHALATE	400	U	
DIMETHYL PHTHALATE	400	U	
DI-N-BUTYL PHTHALATE	400	U	
DI-N-OCTYL PHTHALATE	400	U	
FLUORANTHENE	400	U	
FLUORENE	400	U	
HEXACHLOROBENZENE	400	U	
HEXACHLOROBUTADIENE	400	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	400	U	
INDENO(1,2,3-CD)PYRENE	400	U	
ISOPHORONE	400	U	
NAPHTHALENE	400	U	
NITROBENZENE	400	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U	
N-NITROSODIPHENYLAMINE	400	U	
PENTACHLOROPHENOL	1900	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	400	U	
PHENOL	400	U	
PYRENE	400	U	

PROJ_NO: 2192

SDG: C7E090120 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP18-0203-04	nsample	03TP18-0203-04	nsample	03TP18-0203-04
samp_date	5/8/2007	samp_date	5/8/2007	samp_date	5/8/2007
lab_id	C7E090120003	lab_id	C7E090120003	lab_id	C7E090120003
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	80.0	Pct_Solids	80.0	Pct_Solids	80.0
DUP_OF:	03TP18-0203-01	DUP_OF:	03TP18-0203-01	DUP_OF:	03TP18-0203-01

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	410	U	
1,2,4,5-TETRACHLOROBENZENE	410	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	410	U	
2,3,4,6-TETRACHLOROPHENOL	410	U	
2,4,5-TRICHLOROPHENOL	410	U	
2,4,6-TRICHLOROPHENOL	410	U	
2,4-DICHLOROPHENOL	410	U	
2,4-DIMETHYLPHENOL	410	U	
2,4-DINITROPHENOL	2000	U	
2,4-DINITROTOLUENE	410	U	
2,6-DINITROTOLUENE	410	U	
2-CHLORONAPHTHALENE	410	U	
2-CHLOROPHENOL	410	U	
2-METHYLNAPHTHALENE	410	U	
2-METHYLPHENOL	410	U	
2-NITROANILINE	2000	U	
2-NITROPHENOL	410	U	
3,3'-DICHLOROBENZIDINE	2000	UJ	N
3-NITROANILINE	2000	U	
4,6-DINITRO-2-METHYLPHENOL	2000	U	
4-BROMOPHENYL PHENYL ETHER	410	U	
4-CHLORO-3-METHYLPHENOL	410	U	
4-CHLOROANILINE	410	U	
4-CHLOROPHENYL PHENYL ETHER	410	U	
4-METHYLPHENOL	410	U	
4-NITROANILINE	2000	U	
4-NITROPHENOL	2000	U	
ACENAPHTHENE	410	U	
ACENAPHTHYLENE	410	U	
ACETOPHENONE	410	U	
ANTHRACENE	410	U	
ATRAZINE	410	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	410	U	
BENZO(A)ANTHRACENE	410	UJ	N
BENZO(A)PYRENE	410	U	
BENZO(B)FLUORANTHENE	410	U	
BENZO(G,H,I)PERYLENE	410	U	
BENZO(K)FLUORANTHENE	410	U	
BIS(2-CHLOROETHOXY)METHANE	410	U	
BIS(2-CHLOROETHYL)ETHER	410	U	
BIS(2-ETHYLHEXYL)PHTHALATE	410	UJ	N
BUTYL BENZYL PHTHALATE	410	UJ	N
CAPROLACTAM	410	U	
CARBAZOLE	410	U	
CHRYSENE	410	UJ	N
DIBENZO(A,H)ANTHRACENE	410	U	
DIBENZOFURAN	410	U	
DIETHYL PHTHALATE	410	U	
DIMETHYL PHTHALATE	410	U	
DI-N-BUTYL PHTHALATE	410	U	
DI-N-OCTYL PHTHALATE	410	U	
FLUORANTHENE	410	U	
FLUORENE	410	U	
HEXACHLOROBENZENE	410	U	
HEXACHLOROBUTADIENE	410	U	
HEXACHLOROCYCLOPENTADIENE	2000	U	
HEXACHLOROETHANE	410	U	
INDENO(1,2,3-CD)PYRENE	410	U	
ISOPHORONE	410	U	
NAPHTHALENE	410	U	
NITROBENZENE	410	U	
N-NITROSO-DI-N-PROPYLAMINE	410	U	
N-NITROSODIPHENYLAMINE	410	U	
PENTACHLOROPHENOL	2000	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	410	U	
PHENOL	410	U	
PYRENE	410	UJ	N

PROJ_NO: 2192

SDG: C7E090120 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	03TP18-0203-01	nsample	03TP18-0203-04
samp_date	5/8/2007	samp_date	5/8/2007
lab_id	C7E090120002	lab_id	C7E090120003
qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG
Pct_Solids	82.0	Pct_Solids	80.0
DUP_OF:		DUP_OF:	03TP18-0203-01

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.85	J	PU
4,4'-DDE	0.39	J	PU
4,4'-DDT	2.1	U	
ALDRIN	2.1	U	
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	1.5	J	P
AROCLOR-1016	20	U	
AROCLOR-1221	20	U	
AROCLOR-1232	20	U	
AROCLOR-1242	20	U	
AROCLOR-1248	20	U	
AROCLOR-1254	20	U	
AROCLOR-1260	20		
AROCLOR-1262	20	U	
AROCLOR-1268	20	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	41		
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	2.1	U	
ENDOSULFAN SULFATE	0.76	J	PU
ENDRIN	2.1	U	
ENDRIN ALDEHYDE	2.1	U	
ENDRIN KETONE	2.1	U	
GAMMA-BHC (LINDANE)	2.1	U	
GAMMA-CHLORDANE	1.6	J	PU
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	4	U	
TOXAPHENE	81	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2.1	U	
4,4'-DDE	0.47	J	PU
4,4'-DDT	2.1	U	
ALDRIN	2.1	U	
ALPHA-BHC	0.7	J	PU
ALPHA-CHLORDANE	2.1		
AROCLOR-1016	21	U	
AROCLOR-1221	21	U	
AROCLOR-1232	21	U	
AROCLOR-1242	21	U	
AROCLOR-1248	21	U	
AROCLOR-1254	21	U	
AROCLOR-1260	21		
AROCLOR-1262	21	U	
AROCLOR-1268	21	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	35		
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	2.1	U	
ENDOSULFAN SULFATE	0.67	J	PU
ENDRIN	2.1	U	
ENDRIN ALDEHYDE	0.64	J	PU
ENDRIN KETONE	0.56	J	PU
GAMMA-BHC (LINDANE)	2.1	U	
GAMMA-CHLORDANE	2	J	P
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	4.1	U	
TOXAPHENE	83	U	

Data Qualifier Key:

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

Qualifier Codes:

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

APPENDIX B

Laboratory Analytical Results

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-01

GC/MS Volatiles

Lot-Sample #...:	C7E090120-002	**Work Order #...:**	JWJLN1AA	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7131136
Prep Date.....:	05/11/07	**Analysis Date..:**	05/11/07		
Prep Batch #...:	7131197	**Analysis Time..:**	15:29		
Dilution Factor:	0.9	**Initial Wgt/Vol:**	5.53 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	18	**Analyst ID.....:**	034635	**Instrument ID..:**	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromochloromethane	ND	5.5	ug/kg	1.3
Chlorodibromomethane	ND	5.5	ug/kg	1.0
o-Xylene	ND	5.5	ug/kg	1.2
m-Xylene & p-Xylene	ND	11	ug/kg	2.7
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1.2
Acetone	ND	22	ug/kg	5.5
Benzene	ND	5.5	ug/kg	1.1
Bromodichloromethane	ND	5.5	ug/kg	1.1
Bromoform	ND	5.5	ug/kg	1.1
Bromomethane	ND	5.5	ug/kg	1.4
2-Butanone	ND	5.5	ug/kg	1.1
Carbon disulfide	ND	5.5	ug/kg	1.3
Carbon tetrachloride	ND	5.5	ug/kg	0.98
Chlorobenzene	ND	5.5	ug/kg	1.2
Chloroethane	ND	5.5	ug/kg	1.6
Chloroform	ND	5.5	ug/kg	1.2
Chloromethane	ND	5.5	ug/kg	1.2
Cyclohexane	ND	5.5	ug/kg	1.1
1,2-Dibromo-3-chloro-propane	ND	5.5	ug/kg	0.92
1,2-Dibromoethane	ND	5.5	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.5	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.5	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.5	ug/kg	1.2
Dichlorodifluoromethane	ND	5.5	ug/kg	1.4
1,1-Dichloroethane	ND	5.5	ug/kg	1.1
1,2-Dichloroethane	ND	5.5	ug/kg	1.2
1,1-Dichloroethene	ND	5.5	ug/kg	1.3
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1.2
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1.3
1,2-Dichloropropane	ND	5.5	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.5	ug/kg	0.98
trans-1,3-Dichloropropene	ND	5.5	ug/kg	0.95
Ethylbenzene	ND	5.5	ug/kg	1.3
2-Hexanone	ND	5.5	ug/kg	0.87
Isopropylbenzene	ND	5.5	ug/kg	1.2
Methyl acetate	ND	5.5	ug/kg	1.2

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Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-01

GC/MS Volatiles

Lot-Sample #...: C7E090120-002 **Work Order #...:** JWJLN1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	**2.4 J,B**	**5.5**	**ug/kg**	**0.84**
Methylcyclohexane	ND	5.5	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.5	ug/kg	0.95
Methyl tert-butyl ether	ND	5.5	ug/kg	1.0
Styrene	ND	5.5	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1.2
1,2,4-Trichloro-benzene	ND	5.5	ug/kg	1.1
Tetrachloroethene	ND	5.5	ug/kg	1.4
1,1,1-Trichloroethane	ND	5.5	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.5	ug/kg	1.2
Trichloroethene	ND	5.5	ug/kg	1.2
Trichlorofluoromethane	ND	5.5	ug/kg	1.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.5	ug/kg	1.3
Toluene	ND	5.5	ug/kg	0.87
Vinyl chloride	ND	5.5	ug/kg	1.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	83	(70 - 130)
Toluene-d8	97	(85 - 115)
4-Bromofluorobenzene	90	(85 - 120)
Dibromofluoromethane	86	(70 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC/MS Volatiles

Lot-Sample #...:	C7E090120-003	**Work Order #...:**	JWJLQ1AL	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7131136
Prep Date.....:	05/11/07	**Analysis Date..:**	05/11/07		
Prep Batch #...:	7131197	**Analysis Time..:**	11:26		
Dilution Factor:	0.81	**Initial Wgt/Vol:**	6.17 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	20	**Analyst ID.....:**	034635	**Instrument ID..:**	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromochloromethane	ND	5.0	ug/kg	1.2
Chlorodibromomethane	ND	5.0	ug/kg	0.93
o-Xylene	ND	5.0	ug/kg	1.1
m-Xylene & p-Xylene	ND	10	ug/kg	2.5
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1.1
Acetone	ND	20	ug/kg	5.0
Benzene	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	0.98
Bromoform	ND	5.0	ug/kg	1.0
Bromomethane	ND	5.0	ug/kg	1.3
2-Butanone	ND	5.0	ug/kg	0.98
Carbon disulfide	ND	5.0	ug/kg	1.2
Carbon tetrachloride	ND	5.0	ug/kg	0.90
Chlorobenzene	ND	5.0	ug/kg	1.1
Chloroethane	ND	5.0	ug/kg	1.5
Chloroform	ND	5.0	ug/kg	1.1
Chloromethane	ND	5.0	ug/kg	1.1
Cyclohexane	ND	5.0	ug/kg	1.0
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/kg	0.85
1,2-Dibromoethane	ND	5.0	ug/kg	1.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.0	ug/kg	1.1
1,2-Dichlorobenzene	ND	5.0	ug/kg	1.1
Dichlorodifluoromethane	ND	5.0	ug/kg	1.3
1,1-Dichloroethane	ND	5.0	ug/kg	0.98
1,2-Dichloroethane	ND	5.0	ug/kg	1.1
1,1-Dichloroethene	ND	5.0	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1.2
1,2-Dichloropropane	ND	5.0	ug/kg	1.1
cis-1,3-Dichloropropene	ND	5.0	ug/kg	0.91
trans-1,3-Dichloropropene	ND	5.0	ug/kg	0.88
Ethylbenzene	ND	5.0	ug/kg	1.2
2-Hexanone	ND	5.0	ug/kg	0.80
Isopropylbenzene	ND	5.0	ug/kg	1.1
Methyl acetate	ND	5.0	ug/kg	1.1

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Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC/MS Volatiles

Lot-Sample #...: C7E090120-003 Work Order #...: JWJLQ1AL Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	**2.2 J,B**	**5.0**	**ug/kg**	**0.77**
Methylcyclohexane	ND	5.0	ug/kg	1.1
4-Methyl-2-pentanone	ND	5.0	ug/kg	0.88
Methyl t rt-butyl ether	ND	5.0	ug/kg	0.93
Styrene	ND	5.0	ug/kg	1.1
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	1.1
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	1.0
Tetrachloroethene	ND	5.0	ug/kg	1.3
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	1.1
Trichloroethene	ND	5.0	ug/kg	1.1
Trichlorofluoromethane	ND	5.0	ug/kg	1.6
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg	1.2
Toluene	ND	5.0	ug/kg	0.80
Vinyl chloride	ND	5.0	ug/kg	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	69 *	(70 - 130)
Toluene-d8	102	(85 - 115)
4-Bromofluorobenzene	81 *	(85 - 120)
Dibromofluoromethane	80	(70 - 130)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC/MS Volatiles

Lot-Sample #...:	C7E090120-003	**Work Order #...:**	JWJLQ2AL	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7131136
Prep Date.....:	05/11/07	**Analysis Date..:**	05/11/07		
Prep Batch #...:	7131197	**Analysis Time..:**	15:54		
Dilution Factor:	0.88	**Initial Wgt/Vol:**	5.67 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	20	**Analyst ID.....:**	034635	**Instrument ID..:**	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromochloromethane	ND	5.5	ug/kg	1.3
Chlorodibromomethane	ND	5.5	ug/kg	1.0
o-Xylene	ND	5.5	ug/kg	1.2
m-Xylene & p-Xylene	ND	11	ug/kg	2.7
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1.2
Acetone	ND	22	ug/kg	5.5
Benzene	ND	5.5	ug/kg	1.1
Bromodichloromethane	ND	5.5	ug/kg	1.1
Bromoform	ND	5.5	ug/kg	1.1
Bromomethane	ND	5.5	ug/kg	1.4
2-Butanone	ND	5.5	ug/kg	1.1
Carbon disulfide	ND	5.5	ug/kg	1.3
Carbon tetrachloride	ND	5.5	ug/kg	0.98
Chlorobenzene	ND	5.5	ug/kg	1.2
Chloroethane	ND	5.5	ug/kg	1.6
Chloroform	ND	5.5	ug/kg	1.2
Chloromethane	ND	5.5	ug/kg	1.2
Cyclohexane	ND	5.5	ug/kg	1.1
1,2-Dibromo-3-chloro-propane	ND	5.5	ug/kg	0.92
1,2-Dibromoethane	ND	5.5	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.5	ug/kg	1.2
1,4-Dichlorobenzene	ND	5.5	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.5	ug/kg	1.2
Dichl rodifluoromethane	ND	5.5	ug/kg	1.4
1,1-Dichloroethane	ND	5.5	ug/kg	1.1
1,2-Dichloroethane	ND	5.5	ug/kg	1.2
1,1-Dichloroethene	ND	5.5	ug/kg	1.3
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1.2
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1.3
1,2-Dichloropropane	ND	5.5	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.5	ug/kg	0.98
trans-1,3-Dichloropropene	ND	5.5	ug/kg	0.95
Ethylbenzene	ND	5.5	ug/kg	1.3
2-Hexanone	ND	5.5	ug/kg	0.87
Isopropylbenzene	ND	5.5	ug/kg	1.2
Methyl acetate	ND	5.5	ug/kg	1.2

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Tetra Tech NUS, Inc

Client Sampl ID: 03TP18-0203-04

GC/MS Volatiles

Lot-Sample #...: C7E090120-003 Work Order #...: JWJLQ2AL Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	**2.1 J,B**	**5.5**	**ug/kg**	**0.84**
Methylcyclohexane	ND	5.5	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.5	ug/kg	0.95
Methyl tert-butyl ether	ND	5.5	ug/kg	1.0
Styrene	ND	5.5	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1.2
1,2,4-Trichloro-benzene	ND	5.5	ug/kg	1.1
Tetrachloroethene	ND	5.5	ug/kg	1.4
1,1,1-Trichloroethane	ND	5.5	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.5	ug/kg	1.2
Trichloroethene	ND	5.5	ug/kg	1.2
Trichlorofluoromethane	ND	5.5	ug/kg	1.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.5	ug/kg	1.3
Toluene	ND	5.5	ug/kg	0.87
Vinyl chloride	ND	5.5	ug/kg	1.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	68 *	(70 - 130)
Toluene-d8	101	(85 - 115)
4-Bromofluorobenzene	87	(85 - 120)
Dibromofluoromethane	80	(70 - 130)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: TB-050807

GC/MS Volatiles

Lot-Sample #...:	C7E090120-001	Work Order #...:	JWJLL1AA	Matrix.....:	WATER
Date Sampled...:	05/08/07	Date Received..:	05/09/07	MS Run #.....:	7136324
Prep Date.....:	05/16/07	Analysis Date..:	05/16/07		
Prep Batch #...:	7136629	Analysis Time..:	20:24		
Dilution Factor:	1	Initial Wgt/Vol:	5 mL	Final Wgt/Vol..:	5 mL
Analyst ID.....:	402467	Instrument ID..:	HP7		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorodibromomethane	ND	5.0	ug/L	0.50
o-Xylene	ND	5.0	ug/L	0.89
m-Xylene & p-Xylene	ND	10	ug/L	1.6
1,2,3-Trichlorobenzene	ND	5.0	ug/L	0.33
Bromochloromethane	ND	5.0	ug/L	0.96
Acetone	ND	20	ug/L	5.0
Benzene	ND	5.0	ug/L	0.81
Bromodichloromethane	ND	5.0	ug/L	0.58
Bromoform	ND	5.0	ug/L	0.37
Bromomethane	ND	5.0	ug/L	0.75
2-Butanone	ND	5.0	ug/L	0.73
Carbon disulfide	ND	5.0	ug/L	1.1
Carbon t trachloride	ND	5.0	ug/L	0.91
Chlorobenzene	ND	5.0	ug/L	0.71
Chloroethane	ND	5.0	ug/L	1.2
Chloroform	ND	5.0	ug/L	0.78
Chloromethane	ND	5.0	ug/L	0.87
Cyclohexane	ND	5.0	ug/L	1.1
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	1.3
1,2-Dibromoethane	ND	5.0	ug/L	0.64
1,3-Dichlorobenzene	ND	5.0	ug/L	0.66
1,4-Dichlorobenzene	ND	5.0	ug/L	0.60
1,2-Dichlorobenzene	ND	5.0	ug/L	0.65
Dichlorodifluoromethane	ND	5.0	ug/L	1.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	0.64
1,1-Dichloroethene	ND	5.0	ug/L	0.87
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.0
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.90
1,2-Dichloropropane	ND	5.0	ug/L	0.67
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.79
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.57
Ethylbenz ne	ND	5.0	ug/L	0.58
2-Hexanone	ND	5.0	ug/L	0.45
Isopropylbenzene	ND	5.0	ug/L	0.72
Methyl acetate	ND	5.0	ug/L	0.47

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Tetra Tech NUS, Inc

Client Sample ID: TB-050807

GC/MS Volatiles

Lot-Sample #...: C7E090120-001 Work Order #...: JWJLL1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylen chloride	ND	5.0	ug/L	0.75
Methylcyclohexane	ND	5.0	ug/L	1.1
4-Methyl-2-pentanone	ND	5.0	ug/L	0.46
Methyl tert-butyl ether	ND	5.0	ug/L	0.77
Styrene	ND	5.0	ug/L	0.80
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.63
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.42
Tetrachloroethene	ND	5.0	ug/L	0.57
1,1,1-Trichloroethane	ND	5.0	ug/L	0.79
1,1,2-Trichloroethane	ND	5.0	ug/L	0.79
Trichloroethene	ND	5.0	ug/L	0.88
Trichlorofluoromethane	ND	5.0	ug/L	0.80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L	1.2
Toluene	ND	5.0	ug/L	0.80
Vinyl chloride	ND	5.0	ug/L	0.94

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(70 - 120)
Toluene-d8	100	(85 - 120)
4-Bromofluorobenzene	99	(75 - 120)
Dibromofluoromethane	110	(85 - 115)

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-01

GC/MS Semivolatiles

Lot-Sample #...:	C7E090120-002	**Work Order #...:**	JWJLN1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7131004
Prep Date.....:	05/11/07	**Analysis Date..:**	05/28/07		
Prep Batch #...:	7131012	**Analysis Time..:**	12:10		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	0.5 mL
% Moisture.....:	18	**Analyst ID.....:**	007062	**Instrument ID..:**	722
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	400	ug/kg	24
2,3,4,6-Tetrachlorophenol	ND	400	ug/kg	28
Acenaphthene	ND	400	ug/kg	32
Acenaphthylene	ND	400	ug/kg	37
Acetophenone	ND	400	ug/kg	60
Anthracene	ND	400	ug/kg	38
Atrazine	ND	400	ug/kg	58
Benzo(a)anthracene	ND	400	ug/kg	40
Benzo(a)pyrene	ND	400	ug/kg	37
Benzo(b)fluoranthene	ND	400	ug/kg	54
Benzo(ghi)perylene	ND	400	ug/kg	35
Benzo(k)fluoranthene	ND	400	ug/kg	52
Benzaldehyde	ND	400	ug/kg	83
1,1'-Biphenyl	ND	400	ug/kg	46
bis(2-Chloroethoxy) methane	ND	400	ug/kg	45
bis(2-Chloroethyl)-ether	ND	400	ug/kg	46
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg	39
4-Bromophenyl phenyl ether	ND	400	ug/kg	33
Butyl benzyl phthalate	ND	400	ug/kg	43
Caprolactam	ND	400	ug/kg	58
Carbazole	ND	400	ug/kg	35
4-Chloroaniline	ND	400	ug/kg	27
4-Chloro-3-methylphenol	ND	400	ug/kg	34
2-Chloronaphthalene	ND	400	ug/kg	36
2-Chlorophenol	ND	400	ug/kg	69
4-Chlorophenyl phenyl ether	ND	400	ug/kg	28
Chrysene	ND	400	ug/kg	39
Dibenz(a,h)anthracene	ND	400	ug/kg	27
Dibenzofuran	ND	400	ug/kg	38
3,3'-Dichlorobenzidine	ND	1900	ug/kg	24
2,4-Dichlorophenol	ND	400	ug/kg	42

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-01

GC/MS Semivolatiles

Lot-Sample #...: C7E090120-002 **Work Order #...:** JWJLN1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	400	ug/kg	37
2,4-Dimethylphenol	ND	400	ug/kg	35
Dimethyl phthalate	ND	400	ug/kg	33
Di-n-butyl phthalate	ND	400	ug/kg	36
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg	26
2,4-Dinitrophenol	ND	1900	ug/kg	610
2,4-Dinitrotoluene	ND	400	ug/kg	36
2,6-Dinitrotoluene	ND	400	ug/kg	30
Di-n-octyl phthalate	ND	400	ug/kg	35
Fluoranthene	ND	400	ug/kg	37
Fluorene	ND	400	ug/kg	35
Hexachlorobenzene	ND	400	ug/kg	33
Hexachlorobutadiene	ND	400	ug/kg	55
Hexachlorocyclopentadiene	ND	1900	ug/kg	27
Hexachloroethane	ND	400	ug/kg	55
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	28
Isophorone	ND	400	ug/kg	53
2-Methylnaphthalene	ND	400	ug/kg	42
2-Methylphenol	ND	400	ug/kg	59
4-Methylphenol	ND	400	ug/kg	90
Naphthalene	ND	400	ug/kg	41
2-Nitroaniline	ND	1900	ug/kg	37
3-Nitroaniline	ND	1900	ug/kg	38
4-Nitroaniline	ND	1900	ug/kg	23
Nitrobenzene	ND	400	ug/kg	50
2-Nitrophenol	ND	400	ug/kg	55
4-Nitrophenol	ND	1900	ug/kg	28
N-Nitrosodi-n-propylamine	ND	400	ug/kg	40
N-Nitrosodiphenylamine	ND	400	ug/kg	45
2,2'-oxybis(1-Chloropropane)	ND	400	ug/kg	65
Pentachlorophenol	ND	1900	ug/kg	28
Phenanthrene	ND	400	ug/kg	38
Phenol	ND	400	ug/kg	44
Pyrene	ND	400	ug/kg	44
2,4,5-Trichlorophenol	ND	400	ug/kg	39
2,4,6-Trichlorophenol	ND	400	ug/kg	28

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-01

GC/MS Semivolatiles

Lot-Sample #...: C7E090120-002 **Work Order #...:** JWJLN1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	88	(45 - 105)
2-Fluorophenol	79	(35 - 105)
Ph nol-d5	81	(40 - 100)
2,4,6-Tribromophenol	70	(35 - 125)
Nitrobenzene-d5	74	(35 - 100)
Terphenyl-d14	114	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC/MS Semivolatiles

Lot-Sample #...:	C7E090120-003	**Work Order #...:**	JWJLQ1AM	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7131004
Prep Date.....:	05/11/07	**Analysis Date..:**	05/29/07		
Prep Batch #...:	7131012	**Analysis Time..:**	11:59		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	0.5 mL
% Moisture.....:	20	**Analyst ID.....:**	007062	**Instrument ID..:**	722
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	410	ug/kg	24
2,3,4,6-Tetrachlorophenol	ND	410	ug/kg	29
Acenaphthene	ND	410	ug/kg	32
Acenaphthylene	ND	410	ug/kg	38
Acetophenone	ND	410	ug/kg	61
Anthracene	ND	410	ug/kg	39
Atrazine	ND	410	ug/kg	59
Benzo(a)anthracene	ND	410	ug/kg	41
Benzo(a)pyrene	ND	410	ug/kg	37
Benzo(b)fluoranthene	ND	410	ug/kg	55
Benzo(ghi)perylene	ND	410	ug/kg	36
Benzo(k)fluoranthene	ND	410	ug/kg	53
Benzaldehyde	ND	410	ug/kg	85
1,1'-Biphenyl	ND	410	ug/kg	47
bis(2-Chloroethoxy) methane	ND	410	ug/kg	46
bis(2-Chloroethyl)-ether	ND	410	ug/kg	47
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg	40
4-Bromophenyl phenyl ether	ND	410	ug/kg	34
Butyl benzyl phthalate	ND	410	ug/kg	44
Caprolactam	ND	410	ug/kg	59
Carbazole	ND	410	ug/kg	36
4-Chloroaniline	ND	410	ug/kg	28
4-Chloro-3-methylphenol	ND	410	ug/kg	35
2-Chloronaphthalene	ND	410	ug/kg	37
2-Chlorophenol	ND	410	ug/kg	71
4-Chlorophenyl phenyl ether	ND	410	ug/kg	29
Chrysene	ND	410	ug/kg	40
Dibenz(a,h)anthracene	ND	410	ug/kg	27
Dibenzofuran	ND	410	ug/kg	39
3,3'-Dichlorobenzidine	ND	2000	ug/kg	25
2,4-Dichlorophenol	ND	410	ug/kg	43

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC/MS Semivolatiles

Lot-Sample #...: C7E090120-003 **Work Order #...:** JWJLQ1AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	410	ug/kg	38
2,4-Dimethylphenol	ND	410	ug/kg	36
Dimethyl phthalate	ND	410	ug/kg	33
Di-n-butyl phthalate	ND	410	ug/kg	37
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg	26
2,4-Dinitrophenol	ND	2000	ug/kg	620
2,4-Dinitrotoluene	ND	410	ug/kg	37
2,6-Dinitrotoluene	ND	410	ug/kg	31
Di-n-octyl phthalate	ND	410	ug/kg	36
Fluoranthene	ND	410	ug/kg	38
Fluorene	ND	410	ug/kg	36
Hexachlorobenzene	ND	410	ug/kg	34
Hexachlorobutadiene	ND	410	ug/kg	57
Hexachlorocyclopentadiene	ND	2000	ug/kg	28
Hexachloroethane	ND	410	ug/kg	57
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg	29
Isophorone	ND	410	ug/kg	54
2-Methylnaphthalene	ND	410	ug/kg	43
2-Methylphenol	ND	410	ug/kg	61
4-Methylphenol	ND	410	ug/kg	92
Naphthalene	ND	410	ug/kg	42
2-Nitroaniline	ND	2000	ug/kg	38
3-Nitroaniline	ND	2000	ug/kg	39
4-Nitroaniline	ND	2000	ug/kg	24
Nitrobenzene	ND	410	ug/kg	51
2-Nitrophenol	ND	410	ug/kg	56
4-Nitrophenol	ND	2000	ug/kg	29
N-Nitrosodi-n-propylamine	ND	410	ug/kg	41
N-Nitrosodiphenylamine	ND	410	ug/kg	46
2,2'-oxybis(1-Chloropropane)	ND	410	ug/kg	67
Pentachlorophenol	ND	2000	ug/kg	28
Phenanthrene	ND	410	ug/kg	39
Phenol	ND	410	ug/kg	45
Pyrene	ND	410	ug/kg	45
2,4,5-Trichlorophenol	ND	410	ug/kg	40
2,4,6-Trichlorophenol	ND	410	ug/kg	29

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC/MS Semivolatiles

Lot-Sample #...: C7E090120-003 **Work Order #...:** JWJLQ1AM **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	66	(45 - 105)
2-Fluorophenol	56	(35 - 105)
Phenol-d5	56	(40 - 100)
2,4,6-Tribromophenol	36	(35 - 125)
Nitrobenzene-d5	59	(35 - 100)
Terphenyl-d14	91	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-01

GC Semivolatiles

Lot-Sample #...:	C7E090120-002	**Work Order #...:**	JWJLN1AD	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7130245
Prep Date.....:	05/10/07	**Analysis Date..:**	05/11/07		
Prep Batch #...:	7130425	**Analysis Time..:**	11:40		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	20 mL
% Moisture.....:	18	**Analyst ID.....:**	401414	**Instrument ID..:**	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha-BHC	ND	2.1	ug/kg	0.31
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	ND	2.1	ug/kg	0.21
gamma-BHC (Lindane)	ND	2.1	ug/kg	0.28
H ptachlor	ND	2.1	ug/kg	0.26
Aldrin	ND	2.1	ug/kg	0.22
Heptachlor epoxide	ND	2.1	ug/kg	0.20
Endosulfan I	ND	2.1	ug/kg	0.21
Dieldrin	**41**	**2.1**	**ug/kg**	**0.15**
4,4'-DDE	**0.39 J**	**2.1**	**ug/kg**	**0.12**
Endrin	ND	2.1	ug/kg	0.16
Endrin ketone	ND	2.1	ug/kg	0.24
Endrin aldehyde	ND	2.1	ug/kg	0.26
Endosulfan II	ND	2.1	ug/kg	0.47
4,4'-DDD	**0.85 J,PG**	**2.1**	**ug/kg**	**0.18**
Endosulfan sulfate	**0.76 J**	**2.1**	**ug/kg**	**0.33**
4,4'-DDT	ND	2.1	ug/kg	0.28
Methoxychlor	ND	4.0	ug/kg	0.84
alpha-Chlordane	**1.5 J**	**2.1**	**ug/kg**	**0.13**
gamma-Chlordane	**1.6 J**	**2.1**	**ug/kg**	**0.21**
Toxaphene	ND	81	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(70 - 125)
Decachlorobiphenyl	95	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC Semivolatiles

Lot-Sample #...:	C7E090120-003	**Work Order #...:**	JWJLQ1AN	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7130245
Prep Date.....:	05/10/07	**Analysis Date..:**	05/11/07		
Prep Batch #...:	7130425	**Analysis Time..:**	12:31		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	20 mL
% Moisture.....:	20	**Analyst ID.....:**	401414	**Instrument ID..:**	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha-BHC	**0.70 J,PG**	**2.1**	**ug/kg**	**0.32**
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	ND	2.1	ug/kg	0.22
gamma-BHC (Lindane)	ND	2.1	ug/kg	0.29
H ptachlor	ND	2.1	ug/kg	0.27
Aldrin	ND	2.1	ug/kg	0.22
Heptachlor epoxide	ND	2.1	ug/kg	0.21
Endosulfan I	ND	2.1	ug/kg	0.22
Dieldrin	**35**	**2.1**	**ug/kg**	**0.15**
4,4'-DDE	**0.47 J**	**2.1**	**ug/kg**	**0.12**
Endrin	ND	2.1	ug/kg	0.17
Endrin ketone	**0.56 J,PG**	**2.1**	**ug/kg**	**0.24**
Endrin aldehyde	**0.64 J,PG**	**2.1**	**ug/kg**	**0.26**
Endosulfan II	ND	2.1	ug/kg	0.48
4,4'-DDD	ND	2.1	ug/kg	0.19
Endosulfan sulfate	**0.67 J,PG**	**2.1**	**ug/kg**	**0.34**
4,4'-DDT	ND	2.1	ug/kg	0.28
Methoxychlor	ND	4.1	ug/kg	0.86
alpha-Chlordane	**2.1**	**2.1**	**ug/kg**	**0.13**
gamma-Chlordane	**2.0 J**	**2.1**	**ug/kg**	**0.21**
Toxaphene	ND	83	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(70 - 125)
Decachlorobiphenyl	95	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-01

GC Semivolatiles

Lot-Sample #...:	C7E090120-002	**Work Order #...:**	JWJLN1AE	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7130246
Prep Date.....:	05/10/07	**Analysis Date..:**	05/18/07		
Prep Batch #...:	7130428	**Analysis Time..:**	15:46		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	20 mL
% Moisture.....:	18	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1262	ND	20	ug/kg	4.4
Aroclor 1268	ND	20	ug/kg	2.6
Aroclor 1016	ND	20	ug/kg	3.0
Aroclor 1221	ND	20	ug/kg	3.9
Aroclor 1232	ND	20	ug/kg	3.5
Aroclor 1242	ND	20	ug/kg	3.3
Aroclor 1248	ND	20	ug/kg	1.9
Aroclor 1254	ND	20	ug/kg	2.9
Aroclor 1260	**20**	**20**	**ug/kg**	**2.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(40 - 140)
Decachlorobiphenyl	89	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP18-0203-04

GC Semivolatiles

Lot-Sample #...:	C7E090120-003	**Work Order #...:**	JWJLQ1AP	**Matrix.....:**	SOLID
Date Sampled...:	05/08/07	**Date Received..:**	05/09/07	**MS Run #.....:**	7130246
Prep Date.....:	05/10/07	**Analysis Date..:**	05/18/07		
Prep Batch #...:	7130428	**Analysis Time..:**	16:45		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	20 mL
% Moisture.....:	20	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1262	ND	21	ug/kg	4.5
Aroclor 1268	ND	21	ug/kg	2.7
Aroclor 1016	ND	21	ug/kg	3.1
Aroclor 1221	ND	21	ug/kg	4.0
Aroclor 1232	ND	21	ug/kg	3.6
Aroclor 1242	ND	21	ug/kg	3.4
Aroclor 1248	ND	21	ug/kg	2.0
Aroclor 1254	ND	21	ug/kg	3.0
Aroclor 1260	**21**	**21**	**ug/kg**	**3.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(40 - 140)
Decachlorobiphenyl	91	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

APPENDIX C

Support Documentation

CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003

STL Lot #: C7E090120

Sample Receiving:
STL Pittsburgh received samples on May 9, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:
All non-CCC compounds, associated with ICAL 4050507S, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 1,2-Dibromo-3-chloropropane, Bromoform, Chloroethane and Methylene chloride. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

All non-CCC compounds, associated with ICAL 7051507H, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: Bromomethane and Chloroethane. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

The following compounds had the %D > 25% in the calibration verification standard CC405011; but were within the expected performance range for these compounds: Chloroethane –33.0% and Trichlorofluoromethane –26.8%.

The reporting limits for the aqueous sample were adjusted according to the amount of sample extracted.

The initial analysis of sample 03TP18-0203-04 had the 1,2-dichloroethane-d4 and the 4-bromofluorobenzene surrogates recover low and outside of criteria. The reanalysis had the 1,2-dichloroethane-d4 surrogate recover low and outside of criteria. Both analyses are reported.

CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003

STL Lot #: C7E090120

GC/MS Volatiles (cont):
The method blank for batch 7131197 had methylene chloride detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had methylene chloride detected had the result flagged with a "B" qualifier.

GC/Ms Semivolatiles:
Sample 03TP18-0203-04 had internal standard chrysene-d12 area count not meet criteria. This sample was analyzed prior to the reported analysis and had this internal standard area count on the low side confirming matrix interference. Only one analysis is reported.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use and average response factor curve if no visible improvement is accomplished using a quadratic curve.

Pesticides:
All compounds <20% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A curve will be used for a compound where it is determined to be the "best-fit" evaluation.

PCBs:
There were no problems associated with the analyses.

Metals:
Sample 03TP18-0203-01 was over the instruments linear range for lead and required a dilution.

Sample 03TP18-0203-04 was over the instruments linear range for iron and required a dilution. This sample was also analyzed at a dilution for cadmium, chromium, sodium, lead, antimony, selenium, thallium, vanadium, and zinc due to inter-element corrections associated with iron.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside of the control limits for mercury.

C7E090120

Chain of Custody Record

STL
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Tetra Tech NUS	Russ Turner	5/8/07	311306
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
600 Clark Avenue Suite 3	610 491 9688 610 491 9645		

City	State	Zip Code	Site Contact	Lab Contact
King of Prussia	PA	19406	Chuck Meyer	Veronica Bortot

Project Name and Location (State)	Carrier/Waybill Number
NAS JRB Willow Grove PA	8548 6865 8622

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		40 ml VOA Vial VOC	5-Gram Encore VOC	8021 Clear 2-Liter Glass Septa Bottle	8081 Clear 1-Liter Glass Amber Bottle	Metals 1-Liter Poly HDPE	1-Liter Poly NaOH Cyanide								Special Instructions/ Conditions of Receipt
TB-050807	5/8/07	0735		X							X				2													
03TP18-0203-01	5/8/07	1025				X		X								3	1	1										
03TP18-0203-04	5/8/07	1045				X		X								3	1	1										
FB-050807	5/8/07	1435		X								X							2	1								
	JK 6/25/07																											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Chuck Meyer	5/8/07	1945	1. Received By		
2. Relinquished By			2. Received By: Patrick L Jandt	5/9/07	0945
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C7E090120 **Work Order #...:** JWQX21AA **Matrix.....:** SOLID
MB Lot-Sample #: C7E110000-197

Prep Date.....: 05/11/07 **Analysis Time..:** 05:34
Analysis Date..: 05/11/07 **Prep Batch #...:** 7131197 **Final Wgt/Vol..:** 5 mL
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Instrument ID..:** HP4
Analyst ID.....: 034635

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chlorom thane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	**1.6 J**	**5.0**	**ug/kg**	**SW846 8260B**
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B

(Continued on next page)

SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Lot #: C7E090120

Extraction: XXA4PQKWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	75	100	90	85	00
02	03TP18-0203-01	83	97	90	86	00
03	03TP18-0203-04	69 *	102	81 *	80	02
04	03TP18-0203-04 RE-1	68 *	101	87	80	01
05	METHOD BLK. JWQX21AA	76	100	91	85	00
06	LCS JWQX21AC	85	96	93	87	00
07	LAB MS/MSD D	71	101	87	82	00
08	LAB MS/MSD S	70	101	86	81	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(70-130)
SRG02	= Toluene-d8	(85-115)
SRG03	= 4-Bromofluorobenzene	(85-120)
SRG04	= Dibromofluoromethane	(70-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C7E090120

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 05/29/07

Lab File ID (Standard): F05290C1 Time Analyzed: 0450

Instrument ID: 722 GC Column: HP5-MS ID:0.25(mm)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	508779	10.26	374575	16.18	154591	19.54
	UPPER LIMIT	1017558	10.76	749150	16.68	309182	20.04
	LOWER LIMIT	254390	9.76	187288	15.68	77296	19.04
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	504031	10.25	434378	16.16	243679	19.52
02	03TP18-0203-	290210	10.23	146079*	16.13	124301	19.48
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

page 1 of 1

FORM VIII SV

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP18-0203-01

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E090120

Lab Sample ID: JWJLN1AD Date(s) Analyzed: 05/11/07 05/11/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
~~alpha-BHC~~	~~1~~	~~4.31~~	~~4.30~~	~~4.36~~	0.2860	
JP 5/21/07	~~2~~	~~4.33~~	~~4.30~~	~~4.40~~	0.1714	66.9
~~gamma-BHC (Lindane)~~	~~1~~	~~4.68~~	~~4.66~~	~~4.72~~	0.1606	
	~~2~~	~~4.77~~	~~4.68~~	~~4.78~~	0.2829	76.2
Dieldrin	1	6.89	6.86	6.92	33.46	
	2	6.83	6.77	6.87	31.58	6.0
4,4'-DDE	1	6.73	6.69	6.75	0.3224	
	2	6.63	6.58	6.68	0.2463	30.9
4,4'-DDD	1	7.46	7.42	7.48	2.132	
	2	7.42	7.36	7.46	0.7018	203.8
Endosulfan sulfate	1	8.07	8.06	8.12	0.4607	
	2	8.30	8.22	8.32	0.6258	35.8
~~Methoxychlor~~	~~1~~	~~8.72~~	~~8.66~~	~~8.72~~	0.5656	
	~~2~~	~~8.73~~	~~8.63~~	~~8.73~~	3.796	571.1
alpha-Chlordane	1	6.48	6.44	6.50	1.260	
	2	6.41	6.35	6.45	1.110	13.5

page 1 of 2

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP18-0203-01

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E090120

Lab Sample ID: JWJLN1AD Date(s) Analyzed: 05/11/07 05/11/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	6.39	6.35	6.41	1.329	
	2	6.35	6.28	6.38	1.061	25.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 2 of 2

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP18-0203-04

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E090120

Lab Sample ID: JWJLQ1AN Date(s) Analyzed: 05/11/07 05/11/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-BHC	1	4.31	4.30	4.36	4.567	
	2	4.33	4.30	4.40	0.5635	710.5
~~gamma-BHC (Lindane)~~	~~1~~	~~4.68~~	~~4.66~~	~~4.72~~	~~0.1286~~	
JD 5/21/07	~~2~~	~~4.77~~	~~4.68~~	~~4.78~~	~~0.2878~~	~~123.8~~
Dieldrin	1	6.89	6.86	6.92	28.05	
	2	6.83	6.77	6.87	26.06	7.6
4,4'-DDE	1	6.73	6.69	6.75	0.3764	
	2	6.63	6.58	6.68	0.2947	27.7
~~Endosulfan II~~	~~1~~	~~7.54~~	~~7.50~~	~~7.56~~	~~0.2942~~	
	~~2~~	~~7.65~~	~~7.59~~	~~7.69~~	~~1.132~~	~~284.8~~
Endosulfan sulfate	1	8.07	8.06	8.12	0.5415	
	2	8.30	8.22	8.32	0.7916	46.2
~~Methoxychlor~~	~~1~~	~~8.72~~	~~8.66~~	~~8.72~~	~~0.4467~~	
	~~2~~	~~8.73~~	~~8.63~~	~~8.73~~	~~4.301~~	~~862.8~~
Endrin ketone	1	8.84	8.79	8.85	1.677	
	2	9.08	9.02	9.12	0.4474	274.8

page 1 of 2

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP18-0203-04

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E090120

Lab Sample ID: JWJLQ1AN Date(s) Analyzed: 05/11/07 05/11/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin aldehyde	1	7.76	7.70	7.76	0.5162	
	2	7.90	7.85	7.95	1.278	147.6
alpha-Chlordane	1	6.48	6.44	6.50	1.719	
	2	6.41	6.35	6.45	1.434	19.9
gamma-Chlordane	1	6.39	6.35	6.41	1.588	
	2	6.35	6.28	6.38	1.290	23.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 2 of 2

FORM X PEST-1 OLM03.0

EVALUATION OF ORGANIC DUPLICATE ANALYSIS PRECISION

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

Sample ID:	**03TP18-0203-01**		**03TP18-0203-04**				
Laboratory ID:							
Sample Date:	**5/8/2007**		**5/8/2007**				
Duplicate:	**03TP18-0203-04**		**03TP18-0203-01**				
	RESULT	**QUAL**	**RESULT**	**QUAL**	**RPD**	**CRQL/MDL**	**NOTES**
PARAMETERS	**mg/Kg**		**mg/Kg**			2.1	
DDD	0.85	J	2.1	U	NC	2.1	2, IN
DDE	0.39	J	0.47	J	NC	2.1	2, IN
ALPHA-BHC	2.1	U	0.7	J	NC	2.1	2, IN
ALPHA-CHLORDANE	1.5	J	2.1		NC	2.1	2, IN
AROCLOR-1260	20		21		-4.9	2.1	1, IN
DIELDRIN	41		35		15.8	2.1	1, IN
ENDOSULFAN SULFATE	0.76	J	0.67	J	NC	2.1	2, IN
ENDRIN ALDEHYDE	2.1	U	0.64	J	NC	2.1	2, IN
ENDRIN KETONE	2.1	U	0.56	J	NC	2.1	2, IN
GAMMA-CHLORDANE	1.6	J	2	J	NC	2.1	2, IN

NOTES

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

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

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

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

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

J - The positive results should be considered estimated.

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

IN - The results are acceptable.

COMMENTS

~~Qualify dieldrin results as estimated (J).~~ ML 7/10/07

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp4.i
Lab File ID: CC40511.D
Analysis Type: SOIL
Lab Sample ID: vstd50
Method: \\qpitpa02\d\chem\hp4.i\4051107d.b\8260bsoil.m

Injection Date: 11-MAY-2007 04:55
Init. Cal. Date(s): 22-MAR-2007 05-MAY-2007
Init. Cal. Times: 18:10 06:23
Quant Type: ISTD

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
$ 39	Dibromofluoromethane	0.22684	0.21529	0.010	-5.1	50.0
$ 43	1,2-Dichloroethane-d4	0.28471	0.26248	0.010	-7.8	50.0
$ 59	Toluene-d8	4.40755	4.62683	0.010	5.0	50.0
$ 80	Bromofluorobenzene	1.63249	1.66722	0.010	2.1	50.0
1	Dichlorodifluoromethane	0.32011	0.35108	0.010	9.7	50.0
2	Chloromethane	0.48976	0.45710	0.100	-6.7	25.0
3	Vinyl Chloride	0.40416	0.39540	0.010	-2.2	20.0
4	Bromomethane	0.08465	0.08197	0.010	-3.2	30.0
5	Chloroethane	0.13767	0.09219	0.010	-33.0	50.0
6	Trichlorofluoromethane	0.31832	0.23391	0.010	-26.5	50.0
12	1,1-Dichloroethene	0.25486	0.24234	0.010	-4.9	20.0
156	1,1,2-Trichlorotrifluoroeth	0.25472	0.24135	0.010	-5.2	25.0
13	Acetone	250	211	0.010	15.5	50.0
155	Methyl acetate	0.19455	0.17392	0.010	-10.6	50.0
15	Carbon Disulfide	0.89762	0.86716	0.010	-3.4	25.0
18	Methylene Chloride	0.29069	0.26942	0.010	-7.3	50.0
19	trans-1,2-Dichloroethene	0.29498	0.28537	0.010	-3.3	25.0
20	Methyl tert-butyl ether	0.62804	0.56845	0.010	-9.5	25.0
24	1,1-Dichloroethane	0.61230	0.57780	0.100	-5.6	25.0
27	2,2-Dichloropropane	0.36172	0.34270	0.010	-5.3	25.0
28	cis-1,2-dichloroethene	0.29633	0.28440	0.010	-4.0	25.0
M 29	1,2-Dichloroethene (total)	0.29565	0.28488	0.010	-3.6	25.0
30	Bromochloromethane	0.11688	0.10743	0.010	-8.1	25.0
31	2-Butanone	0.14622	0.13606	0.010	-6.9	50.0
37	Chloroform	0.45913	0.43143	0.010	-6.0	20.0
157	Cyclohexane	0.82434	0.77299	0.010	-6.2	25.0
38	1,1,1-Trichloroethane	0.41676	0.39283	0.010	-5.7	25.0
40	1,1-Dichloropropene	0.40253	0.38692	0.010	-3.9	25.0
41	Carbon Tetrachloride	0.32365	0.31516	0.010	-2.6	25.0
42	Benzene	1.16956	1.11133	0.010	-5.0	25.0
45	1,2-Dichloroethane	0.38382	0.35279	0.010	-8.1	25.0
47	Trichloroethene	0.28723	0.27104	0.010	-5.6	25.0
158	methyl cyclohexane	0.57614	0.54243	0.010	-5.8	25.0
49	1,2-Dichloropropane	0.33072	0.30461	0.010	-7.9	20.0
50	Dibromomethane	0.11616	0.10553	0.010	-9.1	25.0

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Nam : Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Cod : STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E020142 WO #: JV37P1CX
BATCH: 7131197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
trans-1,3-Dichloropropene	53.4	ND	44.3	83	65- 125	
Ethylbenzene	53.4	ND	53.5	100	75- 125	
2-Hexanone	53.4	ND	38.1	71	45- 145	
Methylene chloride	53.4	3.5	41.7	72	55- 140	
4-Methyl-2-pentanone	53.4	ND	35.3	66	45- 145	
Naphthalene	53.4	ND	37.4	70	40- 125	
Styrene	53.4	ND	49.9	93	75- 125	
1,1,1,2-Tetrachloroethane	53.4	ND	50.3	94	75- 125	
1,1,2,2-Tetrachloroethane	53.4	ND	46.4	87	55- 130	
Tetrachloroethene	53.4	ND	53.5	100	65- 140	
1,1,2-Trichloroethane	53.4	ND	42.2	79	60- 125	
1,1,1-Trichloroethane	53.4	ND	47.4	89	70- 135	
Trichlorofluoromethane	53.4	ND	51.3	96	25- 185	
Xylenes (total)	160	ND	158	99	37- 162	
o-Xylene	53.4	ND	52.6	98	75- 125	
m-Xylene & p-Xylene	107	ND	106	99	80- 125	
Vinyl chloride	53.4	ND	52.2	98	60- 125	
Methyl tert-butyl ether	53.4	ND	34.8	65	40- 140	
Isopropylbenzene	53.4	ND	51.5	96	75- 130	
1,1-Dichloropropene	53.4	ND	47.2	88	70- 135	
1,2,3-Trichlorobenzene	53.4	ND	36.9	69	60- 135	
1,2,3-Trichloropropane	53.4	ND	44.8	84	65- 130	
1,2,4-Trichlorobenzene	53.4	ND	40.3	75	65- 130	
2,2-Dichloropropane	53.4	ND	48.4	91	65- 135	
2-Chlorotoluene	53.4	ND	60.8	114	70- 130	
4-Chlorotoluene	53.4	ND	59.7	112	75- 125	
Bromobenzen	53.4	ND	56.8	106	65- 120	
Dibromomethane	53.4	ND	35.6	67*	75- 130	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E020142 WO #: JV37P1C0
BATCH: 7131197

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.4	45.3	90	2.6	35	65- 135	
Trichloroethene	50.4	45.0	89	3.5	30	75- 125	
Benzene	50.4	45.5	90	1.8	30	75- 125	
Toluene	50.4	50.5	100	2.4	30	70- 125	
Chlorobenzene	50.4	49.6	98	2.0	30	75- 125	
Acetone	50.4	28.3	56	2.9	37	20- 160	
Bromodichloromethane	50.4	41.4	82	0.35	30	70- 130	
Bromoform	50.4	38.2	76	0.90	30	55- 135	
Bromomethane	50.4	48.4	96	2.0	30	30- 160	
2-Butanone	50.4	31.7	63	2.4	33	30- 160	
Bromochloromethane	50.4	39.1	78	2.4	30	70- 125	
Carbon disulfide	50.4	45.8	91	2.8	36	45- 160	
Carbon tetrachloride	50.4	46.4	92	3.7	30	65- 135	
Chloroethane	50.4	35.2	70	46 *	30	40- 155	p
Chloroform	50.4	44.7	89	1.9	30	70- 125	
Chloromethane	50.4	50.9	101	4.4	30	50- 130	
1,2-Dibromo-3-chloropropa	50.4	41.2	82	5.5	30	40- 135	
1,2-Dibromo thane	50.4	39.7	79	2.4	30	70- 125	
1,3-Dichlorobenzene	50.4	54.0	107	2.4	30	70- 125	
1,4-Dichlorobenzene	50.4	52.2	104	3.2	30	70- 125	
1,2-Dichlorobenzene	50.4	50.2	100	4.2	30	75- 120	
Dichlorodifluoromethane	50.4	55.9	111	0.59	30	35- 135	
1,1-Dichloroethane	50.4	45.7	91	1.5	47	75- 125	
1,2-Dichloroethane	50.4	38.4	76	0.41	43	70- 135	
trans-1,2-Dichloroethene	50.4	46.0	91	2.9	30	65- 135	
cis-1,2-Dichloroethene	50.4	45.0	89	1.8	30	65- 125	
1,2-Dichloropropane	50.4	42.5	84	0.89	30	70- 120	
cis-1,3-Dichloropropene	50.4	40.4	80	1.0	40	70- 125	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratori s, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E020142 WO #: JV37P1C0
BATCH: 7131197

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
trans-1,3-Dichloropropene	50.4	44.4	88	0.020	31	65- 125	
Ethylbenzene	50.4	51.5	102	3.8	30	75- 125	
2-Hexanone	50.4	38.8	77	1.8	31	45- 145	
Methylene chloride	50.4	41.7	76	0.11	30	55- 140	
4-Methyl-2-pentanone	50.4	35.4	70	0.41	39	45- 145	
Naphthalene	50.4	36.8	73	1.4	30	40- 125	
Styrene	50.4	48.7	97	2.4	30	75- 125	
1,1,1,2-Tetrachloroethane	50.4	50.3	100	0.14	30	75- 125	
1,1,2,2-Tetrachloroethane	50.4	46.8	93	0.73	30	55- 130	
Tetrachloroethene	50.4	51.0	101	4.9	30	65- 140	
1,1,2-Trichloroethane	50.4	42.6	85	1.1	30	60- 125	
1,1,1-Trichloroethane	50.4	45.8	91	3.3	30	70- 135	
Trichlorofluoromethane	50.4	48.6	97	5.4	30	25- 185	
Xylenes (total)	151	154	102	2.8	30	37- 162	
o-Xylene	50.4	50.8	101	3.6	30	75- 125	
m-Xylene & p-Xylene	101	103	102	2.4	30	80- 125	
Vinyl chloride	50.4	51.8	103	0.87	30	60- 125	
Methyl tert-butyl ether	50.4	35.9	71	3.0	50	40- 140	
Isopropylbenzene	50.4	49.2	98	4.6	30	75- 130	
1,1-Dichloropropene	50.4	45.6	91	3.5	30	70- 135	
1,2,3-Trichlorobenzene	50.4	35.2	70	4.5	30	60- 135	
1,2,3-Trichloropropane	50.4	45.8	91	2.3	30	65- 130	
1,2,4-Trichlorobenzene	50.4	39.2	78	2.9	30	65- 130	
2,2-Dichloropropane	50.4	47.2	94	2.5	30	65- 135	
2-Chlorotoluene	50.4	58.5	116	4.0	30	70- 130	
4-Chlorotoluene	50.4	56.4	112	5.7	30	75- 125	
Bromobenzene	50.4	55.3	110	2.6	30	65- 120	
Dibromomethane	50.4	36.2	72*	1.7	30	75- 130	a

(Continued on next page)

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2007 05:53
End Cal Date : 22-MAY-2007 08:18
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\qpitpa02\d\chem\722.i\5pt.b\8270b.m
Last Edit : 23-May-2007 11:12 bungardf
Curve Type : Average

Calibration File Names:
Level 1: \\qpitpa02\d\chem\722.i\5pt.b\F05220C2.D
Level 2: \\qpitpa02\d\chem\722.i\5pt.b\F05220C3.D
Level 3: \\qpitpa02\d\chem\722.i\5pt.b\F05220C1.D
Level 4: \\qpitpa02\d\chem\722.i\5pt.b\F05220C4.D
Level 5: \\qpitpa02\d\chem\722.i\5pt.b\F05220C5.D
Level 6: \\qpitpa02\d\chem\722.i\5pt.b\F05220C6.D

Compound	20.000 Level 1	40.000 Level 2	50.000 Level 3	80.000 Level 4	120.000 Level 5	160.000 Level 6	RRF	% RSD	
225 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
226 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
224 Pentachloroanisole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
203 3&4 Methylphenol total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
198 1,4-Dioxane	0.80783	0.85090	0.78322	0.79489	0.77457	0.74499	0.79273	4.483	
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Pyridine	2.09834	2.06140	2.00258	1.95954	1.90499	1.84664	1.97892	4.792	
199 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
200 Sulfotepp	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
10 N-Nitrosodimethylamine	1.07611	1.09582	1.02781	1.04709	1.02654	0.98797	1.04356	3.694	
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
12 3-Chloropropionitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
16 Methyl methanesulfonate	1.12369	1.14981	1.07439	1.09961	1.03304	1.00899	1.08159	4.967	
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
220 Benzaldehyde	1.07180	0.91144	0.65148	0.67251	0.47508	0.38609	0.69473	37.259	<-
21 Aniline	1.60986	1.55481	1.47089	1.48016	1.45115	1.43072	1.49960	4.572	
22 Phenol	1.41866	1.44790	1.46942	1.45389	1.50968	1.58503	1.48076	3.995	
23 bis(2-Chloroethyl)ether	1.06035	1.03536	1.04891	1.03121	1.07674	1.12280	1.06256	3.190	
24 2-Chlorophenol	1.29291	1.31277	1.31634	1.29511	1.37421	1.42938	1.33679	4.046	
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
26 1,3-Dichlorobenzene	1.61658	1.61194	1.60833	1.63125	1.73334	1.78936	1.66513	4.624	
27 1,4-Dichlorobenzene	1.64545	1.61147	1.60397	1.66605	1.73463	1.80389	1.67758	4.630	
28 1,2-Dichlorobenzene	1.47777	1.46905	1.48051	1.51518	1.60528	1.69452	1.54039	5.893	

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i
Lab File ID: F05280C1.D
Analysis Type:
Lab Sample ID: sstd050
Method: \\qpitpa02\d\chem\722.i\052807.b\8270b.m

Injection Date: 28-MAY-2007 05:30
Init. Cal. Date(s): 10-MAY-2007 22-MAY-2007
Init. Cal. Times: 11:06 08:18
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
198 1,4-Dioxane	0.79273	0.90360	0.010	-13.98479	25.00000	Averaged
220 Benzaldehyde	0.69473	0.68430	0.010	1.50201	25.00000	Averaged
10 N-Nitrosodimethylamine	1.04356	1.12969	0.010	-8.25367	25.00000	Averaged
9 Pyridine	1.97892	2.13111	0.010	-7.69080	25.00000	Averaged
16 Methyl methanesulfonate	1.08159	1.09652	0.010	-1.38053	25.00000	Averaged
21 Aniline	1.49960	1.38276	0.010	7.79122	25.00000	Averaged
22 Phenol	1.48076	1.55222	0.010	-4.82602	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.06256	1.01272	0.010	4.69075	25.00000	Averaged
24 2-Chlorophenol	1.33679	1.28959	0.010	3.53033	25.00000	Averaged
26 1,3-Dichlorobenzene	1.66513	1.63018	0.010	2.09944	25.00000	Averaged
27 1,4-Dichlorobenzene	1.67758	1.65622	0.010	1.27318	20.00000	Averaged
28 1,2-Dichlorobenzene	1.54039	1.49480	0.010	2.95918	25.00000	Averaged
29 Benzyl Alcohol	0.75523	0.69840	0.010	7.52399	25.00000	Averaged
30 2-Methylphenol	1.02550	1.00565	0.010	1.93635	25.00000	Averaged
31 2,2'-oxybis(1-Chloropropane	0.32981	0.34497	0.010	-4.59679	25.00000	Averaged
37 Acetophenone	2.13181	1.94403	0.010	8.80843	25.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.95294	0.99752	0.050	-4.67765	25.00000	Averaged
192 4-Methylphenol	1.22214	1.34989	0.010	-10.45273	25.00000	Averaged
34 Hexachloroethane	0.64374	0.63435	0.010	1.45846	25.00000	Averaged
35 Nitrobenzene	0.48784	0.47461	0.010	2.71233	25.00000	Averaged
41 Isophorone	0.70831	0.67334	0.010	4.93673	25.00000	Averaged
42 2-Nitrophenol	0.21812	0.19971	0.010	8.43970	20.00000	Averaged
43 2,4-Dimethylphenol	0.44254	0.40364	0.010	8.78939	25.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.36835	0.33851	0.010	8.10202	25.00000	Averaged
48 2,4-Dichlorophenol	0.36237	0.33566	0.010	7.37146	20.00000	Averaged
49 Benzoic Acid	0.20731	0.17667	0.010	14.78126	25.00000	Averaged
50 1,2,4-Trichlorobenzene	0.47179	0.44321	0.010	6.05727	25.00000	Averaged
51 Naphthalene	1.04781	0.99004	0.010	5.51273	25.00000	Averaged
52 4-Chloroaniline	0.45922	0.40347	0.010	12.13902	25.00000	Averaged
54 2,6-Dichlorophenol	0.38894	0.36675	0.010	5.70525	25.00000	Averaged
56 Hexachlorobutadiene	0.37601	0.35987	0.010	4.29152	20.00000	Averaged
221 Caprolactam	0.10326	0.07431	0.010	28.03783	25.00000	Averaged <-
59 4-Chloro-3-Methylphenol	0.33838	0.29699	0.010	12.23097	20.00000	Averaged
62 2-Methylnaphthalene	0.75978	0.68216	0.010	10.21664	25.00000	Averaged
205 1-Methylnaphthalene	0.72426	0.62830	0.010	13.24911	25.00000	Averaged
64 Hexachlorocyclopentadiene	0.70266	0.66646	0.050	5.15166	25.00000	Averaged
66 2,4,6-Trichlorophenol	0.50640	0.47911	0.010	5.38947	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.54065	0.50539	0.010	6.52133	25.00000	Averaged
222 1,1'-Biphenyl	1.97041	1.58861	0.010	19.37685	25.00000	Averaged
70 2-Chloronaphthalene	1.26808	1.22037	0.010	3.76217	25.00000	Averaged
73 2-Nitroaniline	0.36067	0.35231	0.010	2.31927	25.00000	Averaged
76 Dimethylphthalate	1.52394	1.37040	0.010	10.07526	25.00000	Averaged

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: T tra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E080110 WO #: JWF891A9
BATCH: 7131012

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
2-Chloronaphthalene	1960	ND	1230	63	45- 105	
4-Chlorophenyl phenyl eth	1960	ND	1210	62	45- 110	
Chrysene	1960	ND	1370	70	55- 110	
Dibenz(a,h)anthracene	1960	ND	1690	86	40- 125	
Dibenzofuran	1960	ND	1170	60	50- 105	
Di-n-butyl phthalate	1960	ND	1230	63	55- 110	
1,2-Dichlorobenzene	1960	ND	919	47	45- 95	
1,3-Dichlorobenzene	1960	ND	801	41	40- 100	
3,3'-Dichlorobenzidine	1960	ND	259	13	10- 130	
2,4-Dichlorophenol	1960	ND	1160	59	45- 110	
Diethyl phthalate	1960	ND	1120	57	50- 115	
2,4-Dimethylphenol	1960	ND	773	39	30- 105	
Dimethyl phthalate	1960	ND	1240	63	50- 110	
4,6-Dinitro-2-methylpheno	1960	ND	1160	59	30- 135	
2,4-Dinitrophenol	1960	ND		28	15- 130	
2,6-Dinitrotoluene	1960	ND	1080	55	50- 110	
Di-n-octyl phthalate	1960	ND	1430	73	40- 130	
Fluoranthene	1960	ND	889	45*	55- 115	a
Fluorene	1960	ND	1240	63	50- 110	
Hexachlorobenzene	1960	ND	1480	76	45- 120	
Hexachlorobutadiene	1960	ND	1080	55	40- 115	
Hexachloroethane	1960	ND	805	41	35- 110	
Indeno(1,2,3-cd)pyrene	1960	ND	1570	80	40- 120	
Isophorone	1960	ND	1170	60	45- 110	
2-Methylnaphthalene	1960	ND	1120	57	45- 105	
2-Methylphenol	1960	ND	1160	59	40- 105	
Naphthalene	1960	ND	1130	58	40- 105	
2-Nitroaniline	1960	ND	1230	63	45- 120	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E080110 WO #: JWF891CA
BATCH: 7131012

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Acenaphthene	1960	1050	54	13		44	45- 110	
4-Chloro-3-methylphenol	1960	875	45	20		55	45- 115	
2-Chlorophenol	1960	992	51	16		54	45- 105	
1,4-Dichlorobenzene	1960	927	47	7.8		59	35- 105	
2,4-Dinitrotoluene	1960	912	47*	16		45	50- 115	a
4-Nitrophenol	1960	809	41	21		64	15- 140	
N-Nitrosodi-n-propylamine	1960	1220	62	15		50	40- 115	
Pentachlorophenol	1960	642	33	22		87	25- 120	
Phenol	1960	1040	53	19		50	40- 100	
Pyrene	1960	1750	90	14		66	45- 125	
1,2,4-Trichlorobenzene	1960	1000	51	3.9		54	45- 110	
bis(2-Ethylhexyl) phthala	1960	1300	66	25		31	45- 125	
Acenaphthylene	1960	1100	56	16		41	45- 105	
Anthracene	1960	1070	55	21		22	55- 105	
Benzo(a)anthracene	1960	1130	58	17		23	50- 110	
B nzo(b)fluoranthene	1960	896	46	14		28	45- 115	
Benzo(k)fluoranthene	1960	1130	58	15		31	45- 125	
Benzo(ghi)perylene	1960	1350	69	19		50	40- 125	
B nzo(a)pyrene	1960	1080	55	18		31	50- 110	
bis(2-Chloroethoxy)methan	1960	968	49	8.9		35	45- 110	
bis(2-Chloroethyl) ether	1960	972	50	5.5		33	40- 105	
4-Bromophenyl phenyl ethe	1960	1220	63	24	*	20	45- 115	p
Butyl benzyl phthalate	1960	1460	75	14		35	50- 125	
Carbazole	1960	946	48	27	*	20	45- 115	p
4-Chloroaniline	1960	345	18	15		28	10- 95	
2-Chloronaphthalene	1960	1080	55	13		28	45- 105	
4-Chlorophenyl phenyl eth	1960	1040	53	15		29	45- 110	
Chrysene	1960	1160	59	17		31	55- 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E080110 WO #: JWF891CA
BATCH: 7131012

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Dibenz(a,h)anthracene	1960	1460	74	15		55	40- 125	
Dibenzofuran	1960	1030	53	12		27	50- 105	
Di-n-butyl phthalate	1960	1010	51*	20		24	55- 110	a
1,2-Dichlorobenzene	1960	956	49	4.0		25	45- 95	
1,3-Dichlorobenzene	1960	873	45	8.6		46	40- 100	
3,3'-Dichlorobenzidine	1960	147	7*	55		56	10- 130	a
2,4-Dichlorophenol	1960	968	49	18		27	45- 110	
Diethyl phthalate	1960	991	51	12		29	50- 115	
2,4-Dim thylphenol	1960	593	30	26		26	30- 105	
Dimethyl phthalate	1960	998	51	21		30	50- 110	
4,6-Dinitro-2-methylpheno	1960	586	30	66	*	39	30- 135	p
2,4-Dinitrophenol	1960		9*	96	*	56	15- 130	a p
2,6-Dinitrotoluene	1960	969	50	10		39	50- 110	
Di-n-octyl phthalate	1960	1190	61	18		29	40- 130	
Fluoranthene	1960	781	40*	13		23	55- 115	a
Fluorene	1960	1040	53	17		29	50- 110	
Hexachlorobenzene	1960	1200	61	21		29	45- 120	
Hexachlorobutadiene	1960	1060	54	1.2		25	40- 115	
Hexachloroethane	1960	887	45	9.7		29	35- 110	
Indeno(1,2,3-cd)pyrene	1960	1260	65	22		37	40- 120	
Isophorone	1960	1060	54	9.8		30	45- 110	
2-Methylnaphthalene	1960	988	50	13		27	45- 105	
2-Methylphenol	1960	941	48	21		29	40- 105	
Naphthalene	1960	1050	54	6.7		25	40- 105	
2-Nitroaniline	1960	1030	52	18		39	45- 120	
3-Nitroaniline	1960	787	40	0.73		45	25- 110	
4-Nitroaniline	1960	832	43	14		44	35- 115	
Nitrobenzene	1960	1030	52	6.4		29	40- 115	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E080110 WO #: JWF891CA
BATCH: 7131012

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
2-Nitrophenol	1960	941	48	12		30	40- 110	
N-Nitrosodiphenylamine	1960	1050	54	26		68	50- 115	
Phenanthrene	1960	1100	56	33	*	20	50- 110	p
2,4,5-Trichlorophenol	1960	883	45*	20		30	50- 110	a
2,4,6-Trichlorophenol	1960	936	48	27		29	45- 110	
Benzyl alcohol	1960	929	47	11		20	20- 125	
2,2'-oxybis(1-Chloropropa	1960	942	48	8.3		27	20- 115	
N-Nitrosodimethylamine	1960	973	50	6.2		47	20- 115	
3-Methylphenol & 4-Methyl	3910	2260	58	25		49	40- 105	
1,2-Diphenylhydrazine (as	1960	1420	73	24	*	20	1- 175	p

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

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

RPD: 6 out of 66 outside limits
Spike R covery: 6 out of 66 outside limits

COMMENTS:

FORM III

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E090120

GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 04/03/07 04/03/07

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.83 DCB: 11.10

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVALB	04/03/07	1139	3.85	11.21*
02		MEDTOX	04/03/07	1156	3.85	11.19*
03		MCHLOR	04/03/07	1213	3.85	11.19*
04		LOWA	04/03/07	1555	3.85	11.19*
05		MLOWA	04/03/07	1612	3.85	11.19*
06		MEDA	04/03/07	1629	3.85	11.19*
07		MHIGHA	04/03/07	1646	3.85	11.19*
08		HIGHA	04/03/07	1703	3.85	11.19*
09		XHIGHA	04/03/07	1721	3.85	11.19*
10		LOWB	04/03/07	1738		
11		MLOWB	04/03/07	1755		
12		MEDB	04/03/07	1812		
13		MHIGHB	04/03/07	1829		
14		HIGHB	04/03/07	1846		
15		XHIGHB	04/03/07	1903		
16		2ND A	04/03/07	1955	3.85	11.19*
17		2ND B	04/03/07	2012		
18		EVALB	04/03/07	2029	3.85	11.19*
19		MHIGHA	05/11/07	1049	3.83	11.11
20		MHIGHB	05/11/07	1106		
21		EVALB	05/11/07	1123	3.83	11.11
22	03TP18-0203-	JWJLN1AD	05/11/07	1140	3.83	11.11
23	03TP18-0203-	JWJLN1A9	05/11/07	1157	3.84	11.11
24	03TP18-0203-	JWJLN1CA	05/11/07	1214	3.84	11.11
25	03TP18-0203-	JWJLQ1AN	05/11/07	1231	3.83	11.11
26	PBLK0425	JWN491AA	05/11/07	1356	3.83	11.11
27	LCS0425	JWN491AC	05/11/07	1413	3.84	11.11
28		MEDA	05/11/07	1430	3.83	11.11
29		MEDB	05/11/07	1447		
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 1 of 1

FORM VIII PEST OLM03.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E090120

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 04/03/07 04/03/07

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.77 DCB: 11.06

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVALB	04/03/07	1139	3.80	11.16*
02		MEDTOX	04/03/07	1156	3.81	11.15*
03		MCHLOR	04/03/07	1213	3.81	11.15*
04		LOWA	04/03/07	1555	3.81	11.15*
05		MLOWA	04/03/07	1612	3.81	11.15*
06		MEDA	04/03/07	1629	3.81	11.15*
07		MHIGHA	04/03/07	1646	3.81	11.15*
08		HIGHA	04/03/07	1703	3.80	11.15*
09		XHIGHA	04/03/07	1721	3.80	11.15*
10		LOWB	04/03/07	1738		
11		MLOWB	04/03/07	1755		
12		MEDB	04/03/07	1812		
13		MHIGHB	04/03/07	1829		
14		HIGHB	04/03/07	1846		
15		XHIGHB	04/03/07	1903		
16		2ND A	04/03/07	1955	3.81	11.15*
17		2ND B	04/03/07	2012		
18		EVALB	04/03/07	2029	3.81	11.15*
19		MHIGHA	05/11/07	1049	3.78	11.08
20		MHIGHB	05/11/07	1106		
21		EVALB	05/11/07	1123	3.78	11.08
22	03TP18-0203-	JWJLN1AD	05/11/07	1140	3.78	11.08
23	03TP18-0203-	JWJLN1A9	05/11/07	1157	3.78	11.08
24	03TP18-0203-	JWJLN1CA	05/11/07	1214	3.78	11.08
25	03TP18-0203-	JWJLQ1AN	05/11/07	1231	3.78	11.08
26	PBLK0425	JWN491AA	05/11/07	1356	3.78	11.08
27	LCS0425	JWN491AC	05/11/07	1413	3.78	11.08
28		MEDA	05/11/07	1430	3.78	11.08
29		MEDB	05/11/07	1447		
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 1 of 1

FORM VIII PEST OLM03.0