

**STL**

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates PCB/P

Lot #: H6D030241

William Anderson

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SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "K. Woodcock", written over a light gray grid background.

Kevin S. Woodcock
Project Manager

May 1, 2006

ANALYTICAL METHODS SUMMARY

H6D030241

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
PAHs & Selected SVOCs by HRGC/LRMS	KNOX ID-0016
PCBs, HRGC/HRMS	EPA-22 1668A

References:

EPA-22 "METHOD 1668, REVISION A: CHLORINATED BIPHENYL CONGENERS IN
WATER, SOIL, SEDIMENT, AND TISSUE BY HRGC/HRMS"
EPA-821-R-00-002 12/99

KNOX Severn Trent Laboratories Knoxville, Facility Standard
Operating Procedure.

SAMPLE SUMMARY

H6D030241

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H2A	001	G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B	03/28/06	
H2H2M	002	G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B	03/28/06	
H2H2T	003	G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B	03/28/06	
H2H2V	004	G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B	03/29/06	
H2H2W	005	G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B	03/29/06	
H2H2X	006	G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B	03/29/06	
H2H20	007	G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B	03/28/06	
H2H21	008	G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B	03/28/06	
H2H22	009	G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B	03/28/06	
H2H23	010	G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB	03/30/06	
H2H24	011	G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B	03/30/06	
H2H25	012	G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B	03/30/06	
H2H26	013	G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B	03/30/06	
H2H27	014	A-5376 MEDIA CHECK XAD	03/28/06	
H2H28	015	A-5378 MEDIA CHECK FILTER	03/28/06	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE

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The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Trace Level Organics – Method EPA-22 1668A

QC Batch 6100045

On the listed samples, the recovery of the listed internal standard exceeded the upper acceptance criterion (140%). The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

13C12-PCB 209 145%

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A-5378 MEDIA CHECK FILTER

13C12-PCB 209 145%

QC Batch 6100047

On the listed samples, the recovery of the listed internal standard exceeded the upper acceptance criterion (140%). The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

H2W5J1AA-Method Blank

13C12-PCB 209 148%

G-2927/2928-R1-MM5-BACK HALF COMPOSITE TRAIN B

13C12-PCB 209 149%

G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

13C12-PCB 209 151%

G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

13C12-PCB 209 147%

G-3042/R2-MM5 TRAIN B XAD-2 TRIP/RB

13C12-PCB 209 145%

G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

13C12-PCB 209 149%

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A-5376 MEDIA CHECK XAD

13C12-PCB 209 148%

QC Batch 6100050

The method referenced for the analysis was EPA 1668 Revision A.

Nomenclature

The standardization strategy described in this report uses the naming convention of SW-846 Method 8290. This convention differs from Method 1668A in the following manner:

Standard Addition Occurs Prior To:	Method 1668 A	SW-846 Conventions Used in This Report
Sampling	None	Sampling Surrogate
Extraction	Labeled Toxics/LOC/Window Defining	Internal Standard
Cleanups	Labeled Cleanup Standard	Cleanup Standard
Injection	Labeled Injection Internal Standard	Recovery Standard

The shorthand notation used for congeners in this report is summarized in Table 2.

Qualifiers

The following flags are used to qualify results for HRMS PCB results:

J – The reported result is an estimate. The amount reported is below the Estimated Minimum Level (EML). EML is defined by the method as the lowest concentration at which an analyte can be measured reliably with common laboratory interferences present. This value has been determined for each congener by MDL and laboratory method blank studies. The value is adjusted to reflect sample specific initial and final volumes.

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E – The reported result is an estimate. The amount reported is above the UCL described below.

The E qualifier is applied on the basis of the **Upper Calibration Level (UCL)**. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

B – The analyte is present in the associated method blank at a reportable level. For this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of 2.5-to-1. Therefore, the presence of any amount of the analyte present in the blank will result a B qualifier on all associated samples.

Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the samples, or an established percentage of the regulatory limit. Likewise, some laboratories set a reporting limit at one half the lower calibration limit.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. The criteria include the following areas:

- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio.)
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity, due to a matrix-borne interference.

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C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer. When the C flag is followed by a number, the number indicates the lowest numbered congener among the coelution set. For example, if 100 pg/L is detected at the retention time of PCB 156, and PCB 157 is known to coelute with PCB 156, the results will be flagged as follows:
 PCB 156 100 pg/L C
 PCB 157 100 pg/L C26

In certain electronic deliverables the result field for PCB 157 will be null, with “C156” appearing in the qualifier field in accordance with the CARP EDD specification.

X – Other. See explanation in narrative.

Results

The results for the analyses are summarized in the following pages. Please see comments regarding qualifiers, above. Additional information regarding qualifiers is explained in the legends at the end of each result summary. All PCB shorthand identifications are done in accordance with the IUPAC convention. A summary of the IUPAC convention is provided in Table 2.

Detection Limits

For all analyte results a sample specific detection limit is calculated for that analyte. This is done by first determining the GC/MS peak height of the noise or interferent in the expected region of the analyte signal. This value is multiplied by the number 2.5, which serves as a safety factor. The 2.5 safety factor is disregarded if the noise present in the analyte region is a result of chemical interferences. The resulting signal response value is then used to estimate the minimum detectable analyte amount. The result is the estimated sample detection limit.

When an analyte is not detected, an ND appears in place of the result. The value in the detection limit column is the estimated detection limit for the analyte in that particular sample.

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EXAMPLE CALCULATIONS

The following formulas were used for sample calculations. Examples are given for calculating the percent recovery for internal standard $^{13}\text{C}_{12}$ -PCB 1, the concentration of native PCB 1 and the EDL for PCB 1. All values used in the calculations below are typical (i.e. not extracted from a particular sample). Actual values are found on the IsoCalc Preliminary Sample Report (IPSR) at the position indicated (in parentheses, below):

INTERNAL STANDARD RECOVERY ($^{13}\text{C}_{12}$ -PCB 1)

$$\text{Percent Recovery} = \frac{\Sigma A_{\text{IS}} \cdot W_{\text{RS}} \cdot 100\%}{\Sigma A_{\text{RS}} \cdot W_{\text{IS}} \cdot \text{RRF}}$$

ΣA_{IS} = Sum of areas for the Internal Standard quantitation ions. (IPSR – Column “Area”, Row “ $^{13}\text{C}_{12}$ -PCB 1”)

W_{RS} = Mass in ng of the Recovery Standard. (IPSR – Column “Standard Amt”, Row “ $^{13}\text{C}_{12}$ -PCB 9”)

ΣA_{RS} = Sum of areas for the Recovery Standard quantitation ions. (IPSR – Column “Area”, Row “ $^{13}\text{C}_{12}$ -PCB 9”)

W_{IS} = Mass in ng of the Internal Standard. (IPSR – Column “Std Amt”, Row “ $^{13}\text{C}_{12}$ -PCB 1”)

RRF = Internal Standard mean relative response factor from the initial multipoint calibration. (IPSR - Column “RF”, Row “ $^{13}\text{C}_{12}$ -PCB 1”.)

$$\text{Substituting typical values, } \frac{1106275 \cdot 2.000 \text{ (ng)} \cdot 100\%}{1205581 \cdot 2.000 \text{ (ng)} \cdot 1.412} = 65\% \text{ Recovery}$$

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NATIVE ANALYTE QUANTITATION (PCB 1)

$$\text{Conc} = \frac{\Sigma A_X \bullet W_{IS}}{\Sigma A_{IS} \bullet V \bullet 0.001 \text{ (mL/L)} \bullet \text{RRF}}$$

ΣA_X = Sum of areas for analyte quantitation ions. (IPSR – Area Column “Area”, Row “PCB 1”)

W_{IS} = Mass in ng of Internal Standard. (IPSR – Column “Std Amt”, Row “13C12-PCB 1”)

ΣA_{IS} = Sum areas for the Internal Standard. (IPSR – Column “Area”, Row 13C12-PCB 1)

V = Volume of sample extracted in mL. (IPSR – Header Column 2, Row “Initial Wt/Vol”)

RRF = Native analyte mean relative response factor from the initial calibration, or daily response factor as appropriate. (IPSR – Column “RF”, Row “PCB 1”)

$$\text{Substituting typical values, } \frac{8951 \bullet 2.000 \text{ (ng)}}{1106275 \bullet 2200 \text{ (mL)} \bullet 0.001 \text{ (mL/L)} \bullet 1.136} = 0.0647 \text{ ng/L} = 6.47 \text{ pg/L}$$

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CALCULATION OF SAMPLE SPECIFIC ESTIMATED DETECTION LIMIT

This calculation uses the noise values found on the IsoCalc Preliminary Peak Report (IPPR), which follows the IPSR. All the other values used in the equation are found on the IPSR.)

$$\frac{\Sigma I_X \bullet W_{IS} \bullet T_{SN}}{\Sigma I_{IS} \bullet V \bullet 0.001 \text{ (mL/L)} \bullet \text{RRF}}$$

ΣI_X = Sum of the intensities of the noise levels of the characteristic ions in the region of analyte elution. (IPPR – Columns “Height1” and “Height2”, Row {mass} 188, Sub-Row “Noise”).

W_{IS} = Mass in ng of the Internal Standard. (IPSR – Column “Std Amt”, Row “13C12-PCB 1”).

T_{SN} = Minimum Signal-to-Noise threshold. = 2.5. A constant, specified by the method.

ΣI_{IS} = Intensity of the corresponding ^{13}C ions. (IPSR – Column “Height”, Row “13C12-PCB 9”)

V = Volume of sample extracted in mL. (IPSR – Header Column 2, Row “Initial Wt/Vol”)

RRF = Native analyte mean relative response factor from the initial calibration or daily standard as appropriate. (IPSR – Column “RF”, Row “PCB 1”)

$$\text{Substituting typical values } \frac{79 \bullet 2000 \text{ (pg)} \bullet 2.5}{334600 \bullet 2200 \text{ (mL)} \bullet 0.001 \text{ (mL/L)} \bullet 1.136} = 0.466 \text{ pg/L}$$

$$334600 \bullet 2200 \text{ (mL)} \bullet 0.001 \text{ (mL/L)} \bullet 1.136$$

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Table 1							
Concentration of PCBs in Calibration Solutions							
Analyte Type	BZ/IUPAC ¹	CS 0.5 ng/mL	CS 1 ng/mL	CS 2 ng/mL	CS 3 ² ng/mL	CS 4 ng/mL	CS 5 ng/mL
Congeners							
2-MoCB	1	0.5	1.0	5.0	50	400	2000
4-MoCB	3	0.5	1.0	5.0	50	400	2000
2,2'-DiCB	4	0.5	1.0	5.0	50	400	2000
4,4'-DiCB	15	0.5	1.0	5.0	50	400	2000
2,2',6'-TriCB	19	0.5	1.0	5.0	50	400	2000
3,4,4'-TriCB	37	0.5	1.0	5.0	50	400	2000
2,2',6,6'-TeCB	54	0.5	1.0	5.0	50	400	2000
3,3',4,4'-TeCB	77	0.5	1.0	5.0	50	400	2000
3,4,4',5'-TeCB	81	0.5	1.0	5.0	50	400	2000
2,2',4,6,6'-PeCB	104	0.5	1.0	5.0	50	400	2000
2,3,3',4,4'-PeCB	105	0.5	1.0	5.0	50	400	2000
2,3,4,4',5'-PeCB	114	0.5	1.0	5.0	50	400	2000
2,3',4,4',5'-PeCB	118	0.5	1.0	5.0	50	400	2000
2',3,4,4',5'-PeCB	123	0.5	1.0	5.0	50	400	2000
3,3',4,4',5'-PeCB	126	0.5	1.0	5.0	50	400	2000
2,2',4,4',6,6'-HxCB	155	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5'-HxCB	156	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5'-HxCB	157	0.5	1.0	5.0	50	400	2000
2,3',4,4',5,5'-HxCB	167	0.5	1.0	5.0	50	400	2000
3,3',4,4',5,5'-HxCB	169	0.5	1.0	5.0	50	400	2000
2,2',3,4',5,6,6'-HpCB	188	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5,5'-HpCB	189	0.5	1.0	5.0	50	400	2000
2,2',3,3',5,5',6,6'-OcCB	202	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5,5',6-OcCB	205	0.5	1.0	5.0	50	400	2000
2,2',3,3',4,4',5,5',6-NoCB	206	0.5	1.0	5.0	50	400	2000
2,2',3,3',4,4',5,5',6,6'-NoCB	208	0.5	1.0	5.0	50	400	2000
DeCB	209	0.5	1.0	5.0	50	400	2000
All other CB congeners		0.5	1.0	5.0	50	400	2000
Labeled Congeners							
¹³ C ₁₂ -2-MoCB	1L	100	100	100	100	100	100
¹³ C ₁₂ -4-MoCB	3L	100	100	100	100	100	100
¹³ C ₁₂ -2,2'-DiCB	4L	100	100	100	100	100	100
¹³ C ₁₂ -4,4'-DiCB	15L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',6'-TriCB	19L	100	100	100	100	100	100
¹³ C ₁₂ -3,4,4'-TriCB	37L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',6,6'-TeCB	54L	100	100	100	100	100	100
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	100	100	100	100	100	100
¹³ C ₁₂ -3,4,4',5'-TeCB	81L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',4,6,6'-PeCB	104L	100	100	100	100	100	100
¹³ C ₁₂ -2,3,3',4,4'-PeCB	105L	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,4',5'-PeCB	114L	100	100	100	100	100	100
¹³ C ₁₂ -2,3',4,4',5'-PeCB	118L	100	100	100	100	100	100
¹³ C ₁₂ -2',3,4,4',5'-PeCB	123L	100	100	100	100	100	100
¹³ C ₁₂ -3,3',4,4',5'-PeCB	126L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',4,4',6,6'-HxCB	155L	100	100	100	100	100	100
¹³ C ₁₂ -2,3,3',4,4',5'-HxCB	156L	100	100	100	100	100	100
¹³ C ₁₂ -2,3,3',4,4',5'-HxCB	157L	100	100	100	100	100	100
¹³ C ₁₂ -2,3',4,4',5,5'-HxCB	167L	100	100	100	100	100	100
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	100	100	100	100	100	100

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¹³ C ₁₂ -2,2',3,3',4,4',5-HpCB	170L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	100	100	100	100	100	100
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OxCB	202L	100	100	100	100	100	100
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OxCB	205L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',3,3',4',5,5',6,6'-NoCB	208L	100	100	100	100	100	100
¹³ C ₁₂ -DeCB	209L	100	100	100	100	100	100
Cleanup Standards							
¹³ C ₁₂ -2,4,4'-TriCB	28L	0.5	1.0	5.0	50	400	--
¹³ C ₁₂ -2,3,3',5,5'-PeCB	111L	0.5	1.0	5.0	50	400	--
¹³ C ₁₂ -2,2',3,3',5,5',6-HpCB	178L	0.5	1.0	5.0	50	400	--

Analyte Type	BZ/IUPAC ¹	CS 0.5 ng/mL	CS 1 ng/mL	CS 2 ng/mL	CS 3 ² ng/mL	CS 4 ng/mL	CS 5 ng/mL
Recovery Standards							
¹³ C ₁₂ -2,5-DiCB	9L	100	100	100	100	100	100
¹³ C ₁₂ -2,4',5-TriCB	31L	100	100	100	100	100	100
¹³ C ₁₂ -2,4',6-TriCB	32L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',5,5'-TeCB	52L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',4',5,5'-PeCB	101L	100	100	100	100	100	100
¹³ C ₁₂ -3,3',4,5,5'-PeCB	127L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',3',4,4',5'-HxCB	138L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',3,4,4',5,5'-HpCB	180L	100	100	100	100	100	100
¹³ C ₁₂ -2,2',3,3',4,4',5,5'-OxCB	194L	100	100	100	100	100	100
Labeled Sampling Surrogates							
¹³ C ₁₂ -2,4'-DiCB	8L	0.5	1.0	5.0	50	400	--
¹³ C ₁₂ -3,3',4,5'-TeCB	79L	0.5	1.0	5.0	50	400	--
¹³ C ₁₂ -2,2',3,5',6-PeCB	95L	0.5	1.0	5.0	50	400	--
¹³ C ₁₂ -2,2',4,4',5,5'-HxCB	153L	0.5	1.0	5.0	50	400	--

Notes:

- Suffix "L" indicates labeled compound
- Section 15.3, calibration verification solution

Table 2

PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry Number ³	BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry Number ³
1	2-monochlorobiphenyl	2051-60-7	106	2,3,3',4,5-pentachlorobiphenyl	70424-69-0
2	3-monochlorobiphenyl	2051-61-8	107/109	2,3,3',4,6-pentachlorobiphenyl	74472-35-8
3	4-monochlorobiphenyl	2051-62-9	108/107	2,3,3',4',5-pentachlorobiphenyl	70424-68-9
4	2,2'-dichlorobiphenyl	13029-08-8	109/108	2,3,3',4,5'-pentachlorobiphenyl	70362-41-3
5	2,3-dichlorobiphenyl	16605-91-7	110	2,3,3',4',6-pentachlorobiphenyl	38380-03-9
6	2,3'-dichlorobiphenyl	25569-80-6	111	2,3,3',5,5'-pentachlorobiphenyl	39635-32-0
7	2,4-dichlorobiphenyl	33284-50-3	112	2,3,3',5,6-pentachlorobiphenyl	74472-36-9
8	2,4'-dichlorobiphenyl	34883-43-7	113	2,3,3',5',6-pentachlorobiphenyl	68194-10-5
9	2,5-dichlorobiphenyl	34883-39-1	114	2,3,4,4',5-pentachlorobiphenyl	74472-37-0
10	2,6-dichlorobiphenyl	33146-45-1	115	2,3,4,4',6-pentachlorobiphenyl	74472-38-1
11	3,3'-dichlorobiphenyl	2050-67-1	116	2,3,4,5,6-pentachlorobiphenyl	18259-05-7
12	3,4-dichlorobiphenyl	2974-92-7	117	2,3,4',5,6-pentachlorobiphenyl	68194-11-6
13	3,4'-dichlorobiphenyl	2974-90-5	118	2,3',4,4',5-pentachlorobiphenyl	31508-00-6
14	3,5-dichlorobiphenyl	34883-41-5	119	2,3',4,4',6-pentachlorobiphenyl	56558-17-9

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Table 2

PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry Number ³	BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry Number ³
15	4,4'-dichlorobiphenyl	2050-68-2	120	2,3',4,5,5'-pentachlorobiphenyl	68194-12-7
16	2,2',3-trichlorobiphenyl	38444-78-9	121	2,3',4,5',6-pentachlorobiphenyl	56558-18-0
17	2,2',4-trichlorobiphenyl	37680-66-3	122	2',3,3',4,5-pentachlorobiphenyl (2,3,3',4',5'-pentachlorobiphenyl)	76842-07-4
18	2,2',5-trichlorobiphenyl	37680-65-2	123	2',3,4,4',5-pentachlorobiphenyl (2,3',4,4',5'-pentachlorobiphenyl)	65510-44-3
19	2,2',6-trichlorobiphenyl	38444-73-4	124	2',3,4,5,5'-pentachlorobiphenyl (2,3',4',5',5'-pentachlorobiphenyl)	70424-70-3
20	2,3,3'-trichlorobiphenyl	38444-84-7	125	2',3,4,5,6'-pentachlorobiphenyl (2,3',4',5',6'-pentachlorobiphenyl)	74472-39-2
21	2,3,4-trichlorobiphenyl	55702-46-0	126	3,3',4,4',5-pentachlorobiphenyl	57465-28-8
22	2,3,4'-trichlorobiphenyl	38444-85-8	127	3,3',4,5,5'-pentachlorobiphenyl	39635-33-1
23	2,3,5-trichlorobiphenyl	55720-44-0	128	2,2',3,3',4,4'-hexachlorobiphenyl	38380-07-3
24	2,3,6-trichlorobiphenyl	55702-45-9	129	2,2',3,3',4,5-hexachlorobiphenyl	55215-18-4
25	2,3',4-trichlorobiphenyl	55712-37-3	130	2,2',3,3',4,5'-hexachlorobiphenyl	52663-66-8
26	2,3',5-trichlorobiphenyl	38444-81-4	131	2,2',3,3',4,6-hexachlorobiphenyl	61798-70-7
27	2,3',6-trichlorobiphenyl	38444-76-7	132	2,2',3,3',4,6'-hexachlorobiphenyl	38380-05-1
28	2,4,4'-trichlorobiphenyl	7012-37-5	133	2,2',3,3',5,5'-hexachlorobiphenyl	35694-04-3
29	2,4,5-trichlorobiphenyl	15862-07-4	134	2,2',3,3',5,6-hexachlorobiphenyl	52704-70-8
30	2,4,6-trichlorobiphenyl	35693-92-6	135	2,2',3,3',5,6'-hexachlorobiphenyl	52744-13-5
31	2,4',5-trichlorobiphenyl	16606-02-3	136	2,2',3,3',6,6'-hexachlorobiphenyl	38411-22-2
32	2,4',6-trichlorobiphenyl	38444-77-8	137	2,2',3,4,4',5-hexachlorobiphenyl	35694-06-5
33	2',3,4-trichlorobiphenyl (2,3',4'-trichlorobiphenyl)	38444-86-9	138	2,2',3,4,4',5'-hexachlorobiphenyl	35065-28-2
34	2',3,5-trichlorobiphenyl (2,3',5'-trichlorobiphenyl)	37680-68-5	139	2,2',3,4,4',6-hexachlorobiphenyl	56030-56-9
35	3,3',4-trichlorobiphenyl	37680-69-6	140	2,2',3,4,4',6'-hexachlorobiphenyl	59291-64-4
36	3,3',5-trichlorobiphenyl	38444-87-0	141	2,2',3,4,5,5'-hexachlorobiphenyl	52712-04-6
37	3,4,4'-trichlorobiphenyl	38444-90-5	142	2,2',3,4,5,6-hexachlorobiphenyl	41411-61-4
38	3,4,5-trichlorobiphenyl	53555-66-1	143	2,2',3,4,5,6'-hexachlorobiphenyl	68194-15-0
39	3,4',5-trichlorobiphenyl	38444-88-1	144	2,2',3,4,5',6-hexachlorobiphenyl	68194-14-9
40	2,2',3,3'-tetrachlorobiphenyl	38444-93-8	145	2,2',3,4,6,6'-hexachlorobiphenyl	74472-40-5
41	2,2',3,4-tetrachlorobiphenyl	52663-59-9	146	2,2',3,4',5,5'-hexachlorobiphenyl	51908-16-8
42	2,2',3,4'-tetrachlorobiphenyl	36559-22-5	147	2,2',3,4',5,6-hexachlorobiphenyl	68194-13-8
43	2,2',3,5-tetrachlorobiphenyl	70362-46-8	148	2,2',3,4',5,6'-hexachlorobiphenyl	74472-41-6
44	2,2',3,5'-tetrachlorobiphenyl	41464-39-5	149	2,2',3,4',5',6-hexachlorobiphenyl	38380-04-0
45	2,2',3,6-tetrachlorobiphenyl	70362-45-7	150	2,2',3,4',6,6'-hexachlorobiphenyl	68194-08-1
46	2,2',3,6'-tetrachlorobiphenyl	41464-47-5	151	2,2',3,5,5',6-hexachlorobiphenyl	52663-63-5
47	2,2',4,4'-tetrachlorobiphenyl	2437-79-8	152	2,2',3,5,6,6'-hexachlorobiphenyl	68194-09-2
48	2,2',4,5-tetrachlorobiphenyl	70362-47-9	153	2,2',4,4',5,5'-hexachlorobiphenyl	35065-27-1
49	2,2',4,5'-tetrachlorobiphenyl	41464-40-8	154	2,2',4,4',5,6'-hexachlorobiphenyl	60145-22-4
50	2,2',4,6-tetrachlorobiphenyl	62796-65-0	155	2,2',4,4',6,6'-hexachlorobiphenyl	33979-03-2
51	2,2',4,6'-tetrachlorobiphenyl	68194-04-7	156	2,3,3',4,4',5-hexachlorobiphenyl	38380-08-4
52	2,2',5,5'-tetrachlorobiphenyl	35693-99-3	157	2,3,3',4,4',5'-hexachlorobiphenyl	69782-90-7

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Table 2

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BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry Number	BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry Number
53	2,2',5,6'-tetrachlorobiphenyl	41464-41-9	158	2,3,3',4,4',6-hexachlorobiphenyl	74472-42-7
54	2,2',6,6'-tetrachlorobiphenyl	15968-05-5	159	2,3,3',4,5,5'-hexachlorobiphenyl	39635-35-3
55	2,3,3',4-tetrachlorobiphenyl	74338-24-2	160	2,3,3',4,5,6-hexachlorobiphenyl	41411-62-5
56	2,3,3',4'-tetrachlorobiphenyl	41464-43-1	161	2,3,3',4,5',6-hexachlorobiphenyl	74472-43-8
57	2,3,3',5-tetrachlorobiphenyl	70424-67-8	162	2,3,3',4',5,5'-hexachlorobiphenyl	39635-34-2
58	2,3,3',5'-tetrachlorobiphenyl	41464-49-7	163	2,3,3',4',5,6-hexachlorobiphenyl	74472-44-9
59	2,3,3',6-tetrachlorobiphenyl	74472-33-6	164	2,3,3',4',5',6-hexachlorobiphenyl	74472-45-0
60	2,3,4,4'-tetrachlorobiphenyl	33025-41-1	165	2,3,3',5,5',6-hexachlorobiphenyl	74472-46-1
61	2,3,4,5-tetrachlorobiphenyl	33284-53-6	166	2,3,4,4',5,6-hexachlorobiphenyl	41411-63-6
62	2,3,4,6-tetrachlorobiphenyl	54230-22-7	167	2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6
63	2,3,4',5-tetrachlorobiphenyl	74472-34-7	168	2,3',4,4',5',6-hexachlorobiphenyl	59291-65-5
64	2,3,4',6-tetrachlorobiphenyl	52663-58-8	169	3,3',4,4',5,5'-hexachlorobiphenyl	32774-16-6
65	2,3,5,6-tetrachlorobiphenyl	33284-54-7	170	2,2',3,3',4,4',5-heptachlorobiphenyl	35065-30-6
66	2,3',4,4'-tetrachlorobiphenyl	32598-10-0	171	2,2',3,3',4,4',6-heptachlorobiphenyl	52663-71-5
67	2,3',4,5-tetrachlorobiphenyl	73575-53-8	172	2,2',3,3',4,5,5'-heptachlorobiphenyl	52663-74-8
68	2,3',4,5'-tetrachlorobiphenyl	73575-52-7	173	2,2',3,3',4,5,6-heptachlorobiphenyl	68194-16-1
69	2,3',4,6-tetrachlorobiphenyl	60233-24-1	174	2,2',3,3',4,5,6'-heptachlorobiphenyl	38411-25-5
70	2,3',4',5-tetrachlorobiphenyl	32598-11-1	175	2,2',3,3',4,5',6-heptachlorobiphenyl	40186-70-7
71	2,3',4',6-tetrachlorobiphenyl	41464-46-4	176	2,2',3,3',4,6,6'-heptachlorobiphenyl	52663-65-7
72	2,3',5,5'-tetrachlorobiphenyl	41464-42-0	177	2,2',3,3',4',5,6-heptachlorobiphenyl (2,2',3,3',4,5',6'-heptachlorobiphenyl)	52663-70-4
73	2,3',5',6-tetrachlorobiphenyl	74338-23-1	178	2,2',3,3',5,5',6-heptachlorobiphenyl	52663-67-9
74	2,4,4',5-tetrachlorobiphenyl	32690-93-0	179	2,2',3,3',5,6,6'-heptachlorobiphenyl	52663-64-6
75	2,4,4',6-tetrachlorobiphenyl	32598-12-2	180	2,2',3,4,4',5,5'-heptachlorobiphenyl	35065-29-3
76	2',3,4,5-tetrachlorobiphenyl (2,3',4',5'-tetrachlorobiphenyl)	70362-48-0	181	2,2',3,4,4',5,6-heptachlorobiphenyl	74472-47-2
77	3,3',4,4'-tetrachlorobiphenyl	32598-13-3	182	2,2',3,4,4',5,6'-heptachlorobiphenyl	60145-23-5
78	3,3',4,5-tetrachlorobiphenyl	70362-49-1	183	2,2',3,4,4',5',6-heptachlorobiphenyl	52663-69-1
79	3,3',4,5'-tetrachlorobiphenyl	41464-48-6	184	2,2',3,4,4',6,6'-heptachlorobiphenyl	74472-48-3
80	3,3',5,5'-tetrachlorobiphenyl	33284-52-5	185	2,2',3,4,5,5',6-heptachlorobiphenyl	52712-05-7
81	3,4,4',5-tetrachlorobiphenyl	70362-50-4	186	2,2',3,4,5,6,6'-heptachlorobiphenyl	74472-49-4
82	2,2',3,3',4-pentachlorobiphenyl	52663-62-4	187	2,2',3,4',5,5',6-heptachlorobiphenyl	52663-68-0
83	2,2',3,3',5-pentachlorobiphenyl	60145-20-2	188	2,2',3,4',5,6,6'-heptachlorobiphenyl	74487-85-7
84	2,2',3,3',6-pentachlorobiphenyl	52663-60-2	189	2,3,3',4,4',5,5'-heptachlorobiphenyl	39635-31-9
85	2,2',3,4,4'-pentachlorobiphenyl	65510-45-4	190	2,3,3',4,4',5,6-heptachlorobiphenyl	41411-64-7
86	2,2',3,4,5-pentachlorobiphenyl	55312-69-1	191	2,3,3',4,4',5',6-heptachlorobiphenyl	74472-50-7
87	2,2',3,4,5'-pentachlorobiphenyl	38380-02-8	192	2,3,3',4,5,5',6-heptachlorobiphenyl	74472-51-8
88	2,2',3,4,6-pentachlorobiphenyl	55215-17-3	193	2,3,3',4',5,5',6-heptachlorobiphenyl	69782-91-8
89	2,2',3,4,6'-pentachlorobiphenyl	73575-57-2	194	2,2',3,3',4,4',5,5'-octachlorobiphenyl	35694-08-7
90	2,2',3,4',5-pentachlorobiphenyl	68194-07-0	195	2,2',3,3',4,4',5,6-octachlorobiphenyl	52663-78-2
91	2,2',3,4',6-pentachlorobiphenyl	68194-05-8	196	2,2',3,3',4,4',5,6'-octachlorobiphenyl	42740-50-1
92	2,2',3,5,5'-pentachlorobiphenyl	52663-61-3	197	2,2',3,3',4,4',6,6'-octachlorobiphenyl	33091-17-7

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PROJECT NARRATIVE

H6D030241

Table 2

PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry ³ Number	BZ/IUPAC Number ¹	PCB Chemical Structure Name ²	CAS Registry ³ Number
93	2,2',3,5,6-pentachlorobiphenyl	73575-56-1	198	2,2',3,3',4,5,5',6-octachlorobiphenyl	68194-17-2
94	2,2',3,5,6'-pentachlorobiphenyl	73575-55-0	199/200	2,2',3,3',4,5,6,6'-octachlorobiphenyl	52663-73-7
95	2,2',3,5',6-pentachlorobiphenyl	38379-99-6	200/201	2,2',3,3',4,5',6,6'-octachlorobiphenyl	40186-71-8
96	2,2',3,6,6'-pentachlorobiphenyl	73575-54-9	201/199	2,2',3,3',4,5,5',6'-octachlorobiphenyl	52663-75-9
97	2,2',3',4,5-pentachlorobiphenyl (2,2',3,4',5'-pentachlorobiphenyl)	41464-51-1	202	2,2',3,3',5,5',6,6'-octachlorobiphenyl	2136-99-4
98	2,2',3',4,6-pentachlorobiphenyl (2,2',3,4',6'-pentachlorobiphenyl)	60233-25-2	203	2,2',3,4,4',5,5',6-octachlorobiphenyl	52663-76-0
99	2,2',4,4',5-pentachlorobiphenyl	38380-01-7	204	2,2',3,4,4',5,6,6'-octachlorobiphenyl	74472-52-9
100	2,2',4,4',6-pentachlorobiphenyl	39485-83-1	205	2,3,3',4,4',5,5',6-octachlorobiphenyl	74472-53-0
101	2,2',4,5,5'-pentachlorobiphenyl	37680-73-2	206	2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	40186-72-9
102	2,2',4,5,6-pentachlorobiphenyl	68194-06-9	207	2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl	52663-79-3
103	2,2',4,5',6-pentachlorobiphenyl	60145-21-3	208	2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	52663-77-1
104	2,2',4,6,6'-pentachlorobiphenyl	56558-16-8	209	2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl	2051-24-3
105	2,3,3',4,4'-pentachlorobiphenyl	32598-14-4			

1. The BZ number is from Ballschmiter and Zell (1980). The IUPAC number, when different from the BZ, follows the recommended changes to the BZ number per Schulte and Malisch (1983) and Guitart et al. (1993).
2. The chemical structure names are from Ballschmiter and Zell (1980). IUPAC nomenclature structure names are listed in parenthesis when different from the BZ name (source CAS Registry).
3. Chemical Abstract Service Registry number (source CAS Registry and 1668A Table 1).

Trace Level Organics – Method KNOX ID-0016

QC Batch 6100060

The recoveries of the internal standards on the listed samples exceeded the upper acceptance criterion (120%). The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

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PROJECT NARRATIVE

H6D030241

G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Indeno(1,2,3-cd)pyrene-d12	123%
Dibenz(ah)anthracene-d14	127%
Benzo(ghi)perylene-d12	123%

G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Indeno(1,2,3-cd)pyrene-d12	124%
Dibenz(ah)anthracene-d14	128%
Benzo(ghi)perylene-d12	124%

G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Indeno(1,2,3-cd)pyrene-d12	123%
Dibenz(ah)anthracene-d14	126%

G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Indeno(1,2,3-cd)pyrene-d12	126%
Dibenz(ah)anthracene-d14	129%

A-5376 MEDIA CHECK XAD

Indeno(1,2,3-cd)pyrene-d12	126%
Dibenz(ah)anthracene-d14	125%

H2W5Q1AA-Method Blank

Benzo(b)fluoranthene-d12	121%
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On the listed sample the recovery of internal standard Perylene-d12 was outside the lower acceptance criterion (30%). The minimum required signal-to-noise ratio was present, and the target estimated detection limit for associated analytes was met. The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Perylene-d12	7%
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PROJECT NARRATIVE

H6D030241

The recovery of Benzo(ghi)perylene on the laboratory control sample H2W5Q1AC (142%) and laboratory control sample duplicate H2W5Q1AD (143%) was outside QC limits. The upper acceptance criterion is 140%.

Re-extraction is not possible due to limited amount of samples (air samples), therefore, the results are reported as is.

Sample **G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B** was diluted 10-fold to bring Naphthalene within the instrument calibration range.

The following flags are used to qualify results for LRMS-SIM PAH and SSVOC results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is “the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point”. The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report the ML is qualitatively defined as described above, and quantitatively defined as follows: **Minimum Level:** The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures have been employed.

Example: The lowest calibration level for anthracene in the initial calibration is 0.02 µg/mL. A mass of 0.01 µg of anthracene in the sample would result in a concentration of 0.02 µg/mL in the sample extract (at a final volume of 0.5 mL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 0.01 µg mass in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for anthracene becomes 0.1 µg rather than the default of 0.01 µg.

E – The reported result is an estimate. The amount reported is above the UCL described below.

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PROJECT NARRATIVE

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The E qualifier is applied on the basis of the **Upper Calibration Level (UCL)**. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example: The highest calibration level for anthracene in the initial calibration is 5.0 µg/mL. A mass of 2.5 µg of anthracene in the sample would result in a concentration of 5.0 µg/mL in the sample extract (at a final volume of 0.5 mL). Since the concentration in the sample extract corresponds to the concentration in the highest calibration standard, the 2.5 µg mass in the sample components is the UCL. If the sample extract is further diluted, the UCL will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The UCL for anthracene becomes 25 µg rather than the default of 2.5 µg.

In this case all results above 25 µg are flagged with an E.

B – The analyte is present in the associated method blank at a reportable level. For this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of 2.5-to-1. Therefore, the presence of any amount of the analyte present in the blank will result a B qualifier on all associated samples.

If the blank has analytes present above the ML (described above) the need for corrective action beyond qualifying the associated data is evaluated. The determination is made whether the amount in the blank is less than 5% of the lowest amount in associated client samples or regulatory limit. If this is the case, sample processing may continue with the qualification of the data. If the amount in the blank is greater than 5% of the lowest amount in associated client samples or regulatory limit, corrective action must be taken.

The corrective actions may include extracting a second aliquot of sample if available, or notifying the client to assess the impact on the project objectives.

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PROJECT NARRATIVE

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Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the samples, or an established percentage of the regulatory limit. Likewise, some laboratories set a reporting limit at one half the lower calibration limit.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. The criteria include the following areas:

- Quantitation ion present at 2.5 signal-to-noise ratio.
- Chromatographic evidence of confirmation ion must be present.
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).

Note: Total C2 and C3 naphthalene homologues are considered EMPC's and are qualified with the Q flag. This indicates that the qualitative criteria for these homologues are not as rigorous as they are for individual targets. (i.e., The retention times of all the compounds are not known. The compounds are identified as eluting within a retention time window established by examining a variety of crude oil standards.)

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer

X – Other. See explanation in narrative.

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Sample Data Summary

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	Work Order #....:	H2H2A1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0096	ng/sampl
Dichlorobiphenyl (total)	9.6	Q B	0.40	0.33	ng/sampl
Heptachlorobiphenyl (total)	ND		0.20	0.21	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0066	ng/sampl
Hexachlorobiphenyl (total)	0.093	Q J	0.20	0.35	ng/sampl
PCB 156 (BZ)	ND		0.20	0.010	ng/sampl
PCB 157 (BZ)	ND		0.20	0.010	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0073	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0073	ng/sampl
Monochlorobiphenyl (total)	0.67	B	0.20	0.018	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.029	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.10	ng/sampl
Pentachlorobiphenyl (total)	0.49	Q J B	0.20	0.32	ng/sampl
PCB 105 (BZ)	0.022	Q J	0.20	0.0073	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 118 (BZ)	0.087	J	0.20	0.0073	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0075	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0073	ng/sampl
Tetrachlorobiphenyl (total)	2.2	Q B	0.40	0.29	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0083	ng/sampl
PCB 77 (BZ)	0.030	Q J	0.20	0.0089	ng/sampl
Trichlorobiphenyl (total)	11	Q B	0.40	0.23	ng/sampl

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	Work Order #....:	H2H2A1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	75	30 - 140
13C12-PCB 3	72	30 - 140
13C12-PCB 4	91	30 - 140
13C12-PCB 15	86	30 - 140
13C12-PCB 19	94	30 - 140
13C12-PCB 37	94	30 - 140
13C12-PCB 54	96	30 - 140
13C12-PCB 77	96	30 - 140
13C12-PCB 81	98	30 - 140
13C12-PCB 104	99	30 - 140
13C12-PCB 105	102	30 - 140
13C12-PCB 114	99	30 - 140
13C12-PCB 118	101	30 - 140
13C12-PCB 123	96	30 - 140
13C12-PCB 126	106	30 - 140
13C12-PCB 155	113	30 - 140
13C12-PCB 156	102	30 - 140
13C12-PCB 157	102	30 - 140
13C12-PCB 167	101	30 - 140
13C12-PCB 169	100	30 - 140
13C12-PCB 170	102	30 - 140
13C12-PCB 188	92	30 - 140
13C12-PCB 189	95	30 - 140
13C12-PCB 202	108	30 - 140
13C12-PCB 205	104	30 - 140
13C12-PCB 206	110	30 - 140
13C12-PCB 208	107	30 - 140
13C12-PCB 209	125	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	96	40 - 125
13C12-PCB 111	100	40 - 125
13C12-PCB 178	88	40 - 125

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	Work Order #....:	H2H2A1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	Work Order #....:	H2H2M1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	MID	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.016	ng/sampl
Dichlorobiphenyl (total)	9.8	Q B	0.40	0.34	ng/sampl
Heptachlorobiphenyl (total)	0.13	Q J	0.20	0.31	ng/sampl
PCB 189 (BZ)	ND		0.20	0.013	ng/sampl
Hexachlorobiphenyl (total)	0.33	Q B J	0.20	0.60	ng/sampl
PCB 156 (BZ)	0.061	Q C J	0.20	0.018	ng/sampl
PCB 157 (BZ)	0.061	Q C156 J	0.20	0.018	ng/sampl
PCB 167 (BZ)	0.027	J	0.20	0.012	ng/sampl
PCB 169 (BZ)	ND		0.20	0.020	ng/sampl
Monochlorobiphenyl (total)	6.0	B	0.20	0.029	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.054	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.16	ng/sampl
Pentachlorobiphenyl (total)	1.0	Q B	0.20	0.46	ng/sampl
PCB 105 (BZ)	0.067	J	0.20	0.012	ng/sampl
PCB 114 (BZ)	ND		0.20	0.011	ng/sampl
PCB 118 (BZ)	0.13	J	0.20	0.012	ng/sampl
PCB 123 (BZ)	0.022	J	0.20	0.012	ng/sampl
PCB 126 (BZ)	0.091	Q J	0.20	0.016	ng/sampl
Tetrachlorobiphenyl (total)	4.0	B Q	0.40	0.55	ng/sampl
PCB 81 (BZ)	0.060	Q J	0.20	0.015	ng/sampl
PCB 77 (BZ)	0.36		0.20	0.018	ng/sampl
Trichlorobiphenyl (total)	8.0	Q B	0.40	0.34	ng/sampl

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	Work Order #....:	H2H2M1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	69	30 - 140
13C12-PCB 3	68	30 - 140
13C12-PCB 4	90	30 - 140
13C12-PCB 15	79	30 - 140
13C12-PCB 19	92	30 - 140
13C12-PCB 37	84	30 - 140
13C12-PCB 54	90	30 - 140
13C12-PCB 77	75	30 - 140
13C12-PCB 81	80	30 - 140
13C12-PCB 104	99	30 - 140
13C12-PCB 105	110	30 - 140
13C12-PCB 114	111	30 - 140
13C12-PCB 118	116	30 - 140
13C12-PCB 123	109	30 - 140
13C12-PCB 126	87	30 - 140
13C12-PCB 155	116	30 - 140
13C12-PCB 156	88 C	30 - 140
13C12-PCB 157	88 C	30 - 140
13C12-PCB 167	91	30 - 140
13C12-PCB 169	56	30 - 140
13C12-PCB 170	94	30 - 140
13C12-PCB 188	101	30 - 140
13C12-PCB 189	85	30 - 140
13C12-PCB 202	116	30 - 140
13C12-PCB 205	104	30 - 140
13C12-PCB 206	118	30 - 140
13C12-PCB 208	128	30 - 140
13C12-PCB 209	149 *	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 8	103	50 - 150
13C12-PCB 28	92	40 - 125
13C12-PCB 79	104	50 - 150
13C12-PCB 95	103	50 - 150
13C12-PCB 111	100	40 - 125
13C12-PCB 153	126	50 - 150
13C12-PCB 178	94	40 - 125

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	Work Order #....:	H2H2M1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	Work Order #....:	H2H2T1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.025	ng/sampl
Dichlorobiphenyl (total)	2.0	B Q	0.40	0.21	ng/sampl
Heptachlorobiphenyl (total)	0.024	Q B J	0.20	0.29	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0061	ng/sampl
Hexachlorobiphenyl (total)	0.23	Q B J	0.20	0.45	ng/sampl
PCB 156 (BZ)	ND		0.20	0.013	ng/sampl
PCB 157 (BZ)	ND		0.20	0.013	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0098	ng/sampl
Monochlorobiphenyl (total)	0.23	B J	0.20	0.012	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.050	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.14	ng/sampl
Pentachlorobiphenyl (total)	0.75	J Q B	0.20	0.40	ng/sampl
PCB 105 (BZ)	0.035	B J	0.20	0.0067	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0065	ng/sampl
PCB 118 (BZ)	0.078	Q B J	0.20	0.0066	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0072	ng/sampl
Tetrachlorobiphenyl (total)	2.5	B Q	0.40	0.35	ng/sampl
PCB 81 (BZ)	ND		0.20	0.010	ng/sampl
PCB 77 (BZ)	0.021	Q J	0.20	0.011	ng/sampl
Trichlorobiphenyl (total)	3.8	B Q	0.40	0.20	ng/sampl

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	Work Order #....:	H2H2T1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	96	30 - 140
13C12-PCB 3	92	30 - 140
13C12-PCB 4	94	30 - 140
13C12-PCB 15	86	30 - 140
13C12-PCB 19	100	30 - 140
13C12-PCB 37	96	30 - 140
13C12-PCB 54	138	30 - 140
13C12-PCB 77	92	30 - 140
13C12-PCB 81	93	30 - 140
13C12-PCB 104	99	30 - 140
13C12-PCB 105	102	30 - 140
13C12-PCB 114	100	30 - 140
13C12-PCB 118	104	30 - 140
13C12-PCB 123	97	30 - 140
13C12-PCB 126	100	30 - 140
13C12-PCB 155	131	30 - 140
13C12-PCB 156	97 C	30 - 140
13C12-PCB 157	97 C	30 - 140
13C12-PCB 167	96	30 - 140
13C12-PCB 169	90	30 - 140
13C12-PCB 170	99	30 - 140
13C12-PCB 188	98	30 - 140
13C12-PCB 189	130	30 - 140
13C12-PCB 202	107	30 - 140
13C12-PCB 205	97	30 - 140
13C12-PCB 206	85	30 - 140
13C12-PCB 208	89	30 - 140
13C12-PCB 209	80	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	100	40 - 125
13C12-PCB 111	100	40 - 125
13C12-PCB 178	95	40 - 125

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	Work Order #....:	H2H2T1AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	Work Order #....:	H2H2V1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0082	ng/sampl
Dichlorobiphenyl (total)	1.5	Q B	0.40	0.20	ng/sampl
Heptachlorobiphenyl (total)	ND		0.20	0.19	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0060	ng/sampl
Hexachlorobiphenyl (total)	0.028	Q J	0.20	0.31	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0062	ng/sampl
Monochlorobiphenyl (total)	0.061	Q B J	0.20	0.013	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.028	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.089	ng/sampl
Pentachlorobiphenyl (total)	0.030	Q J	0.20	0.27	ng/sampl
PCB 105 (BZ)	ND		0.20	0.0061	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0058	ng/sampl
PCB 118 (BZ)	0.018	Q J	0.20	0.0063	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0062	ng/sampl
Tetrachlorobiphenyl (total)	0.38	Q J B	0.40	0.23	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0068	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0073	ng/sampl
Trichlorobiphenyl (total)	1.6	B J Q	0.40	0.18	ng/sampl

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	Work Order #....:	H2H2V1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	81	30 - 140
13C12-PCB 3	79	30 - 140
13C12-PCB 4	97	30 - 140
13C12-PCB 15	92	30 - 140
13C12-PCB 19	101	30 - 140
13C12-PCB 37	99	30 - 140
13C12-PCB 54	102	30 - 140
13C12-PCB 77	98	30 - 140
13C12-PCB 81	99	30 - 140
13C12-PCB 104	103	30 - 140
13C12-PCB 105	108	30 - 140
13C12-PCB 114	104	30 - 140
13C12-PCB 118	106	30 - 140
13C12-PCB 123	100	30 - 140
13C12-PCB 126	112	30 - 140
13C12-PCB 155	116	30 - 140
13C12-PCB 156	105 C	30 - 140
13C12-PCB 157	105 C	30 - 140
13C12-PCB 167	102	30 - 140
13C12-PCB 169	107	30 - 140
13C12-PCB 170	105	30 - 140
13C12-PCB 188	97	30 - 140
13C12-PCB 189	101	30 - 140
13C12-PCB 202	113	30 - 140
13C12-PCB 205	131	30 - 140
13C12-PCB 206	114	30 - 140
13C12-PCB 208	112	30 - 140
13C12-PCB 209	129	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	99	40 - 125
13C12-PCB 111	101	40 - 125
13C12-PCB 178	91	40 - 125

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	Work Order #....:	H2H2V1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	Work Order #....:	H2H2W1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	0.020	Q J	0.20	0.011	ng/sampl
Dichlorobiphenyl (total)	6.4	Q B	0.40	0.30	ng/sampl
Heptachlorobiphenyl (total)	0.16	Q J	0.20	0.26	ng/sampl
PCB 189 (BZ)	ND		0.20	0.011	ng/sampl
Hexachlorobiphenyl (total)	0.43	B J Q	0.20	0.55	ng/sampl
PCB 156 (BZ)	0.048	C J	0.20	0.016	ng/sampl
PCB 157 (BZ)	0.048	C156 J	0.20	0.016	ng/sampl
PCB 167 (BZ)	0.024	J	0.20	0.011	ng/sampl
PCB 169 (BZ)	ND		0.20	0.019	ng/sampl
Monochlorobiphenyl (total)	1.2	B	0.20	0.022	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.039	ng/sampl
Octachlorobiphenyl (total)	0.014	Q J	0.20	0.12	ng/sampl
Pentachlorobiphenyl (total)	0.74	J Q B	0.20	0.41	ng/sampl
PCB 105 (BZ)	0.049	Q J	0.20	0.011	ng/sampl
PCB 114 (BZ)	ND		0.20	0.010	ng/sampl
PCB 118 (BZ)	0.097	Q J	0.20	0.011	ng/sampl
PCB 123 (BZ)	ND		0.20	0.010	ng/sampl
PCB 126 (BZ)	0.069	J	0.20	0.016	ng/sampl
Tetrachlorobiphenyl (total)	2.8	B Q	0.40	0.51	ng/sampl
PCB 81 (BZ)	0.019	Q J	0.20	0.014	ng/sampl
PCB 77 (BZ)	0.17	J	0.20	0.017	ng/sampl
Trichlorobiphenyl (total)	5.5	Q B	0.40	0.30	ng/sampl

STL Knoxville - ACS
Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	Work Order #....:	H2H2W1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 1	75	30 - 140
13C12-PCB 3	72	30 - 140
13C12-PCB 4	96	30 - 140
13C12-PCB 15	81	30 - 140
13C12-PCB 19	97	30 - 140
13C12-PCB 37	84	30 - 140
13C12-PCB 54	94	30 - 140
13C12-PCB 77	73	30 - 140
13C12-PCB 81	78	30 - 140
13C12-PCB 104	103	30 - 140
13C12-PCB 105	112	30 - 140
13C12-PCB 114	111	30 - 140
13C12-PCB 118	115	30 - 140
13C12-PCB 123	111	30 - 140
13C12-PCB 126	86	30 - 140
13C12-PCB 155	116	30 - 140
13C12-PCB 156	89 C	30 - 140
13C12-PCB 157	89 C	30 - 140
13C12-PCB 167	90	30 - 140
13C12-PCB 169	53	30 - 140
13C12-PCB 170	95	30 - 140
13C12-PCB 188	98	30 - 140
13C12-PCB 189	86	30 - 140
13C12-PCB 202	115	30 - 140
13C12-PCB 205	119	30 - 140
13C12-PCB 206	119	30 - 140
13C12-PCB 208	130	30 - 140
13C12-PCB 209	151 *	30 - 140

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 8	102	50 - 150
13C12-PCB 28	95	40 - 125
13C12-PCB 79	109	50 - 150
13C12-PCB 95	105	50 - 150
13C12-PCB 111	99	40 - 125
13C12-PCB 153	129	50 - 150
13C12-PCB 178	93	40 - 125

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	Work Order #....:	H2H2W1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	Work Order #....:	H2H2X1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.011	ng/sampl
Dichlorobiphenyl (total)	1.6	Q B	0.40	0.17	ng/sampl
Heptachlorobiphenyl (total)	0.030	J Q B	0.20	0.16	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0034	ng/sampl
Hexachlorobiphenyl (total)	0.27	B J Q	0.20	0.25	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0049	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0060	ng/sampl
Monochlorobiphenyl (total)	0.24	B J	0.20	0.0091	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.027	ng/sampl
Octachlorobiphenyl (total)	0.0099	Q J	0.20	0.084	ng/sampl
Pentachlorobiphenyl (total)	0.74	J Q B	0.20	0.22	ng/sampl
PCB 105 (BZ)	0.039	B J	0.20	0.0035	ng/sampl
PCB 114 (BZ)	0.0075	Q J	0.20	0.0033	ng/sampl
PCB 118 (BZ)	0.076	B J	0.20	0.0036	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0036	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0041	ng/sampl
Tetrachlorobiphenyl (total)	2.1	B Q	0.40	0.19	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0058	ng/sampl
PCB 77 (BZ)	0.018	Q J	0.20	0.0062	ng/sampl
Trichlorobiphenyl (total)	2.9	B Q	0.40	0.12	ng/sampl

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 006
 Date Sampled....: 03/29/06
 Prep Date....: 04/10/06
 Prep Batch #: 6100050
 Initial Wgt/Vol : 1 Sample
 Analyst ID....: Bruce F. Wagner

Work Order #....: H2H2X1AC
 Date Received....: 04/02/06
 Analysis Date....: 04/25/06
 Instrument ID....: M1D

Matrix....: AIR
 Dilution Factor: 1
 Method: EPA-22 1668A

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 1	94	30 - 140
13C12-PCB 3	90	30 - 140
13C12-PCB 4	91	30 - 140
13C12-PCB 15	86	30 - 140
13C12-PCB 19	92	30 - 140
13C12-PCB 37	97	30 - 140
13C12-PCB 54	133	30 - 140
13C12-PCB 77	89	30 - 140
13C12-PCB 81	91	30 - 140
13C12-PCB 104	95	30 - 140
13C12-PCB 105	100	30 - 140
13C12-PCB 114	99	30 - 140
13C12-PCB 118	100	30 - 140
13C12-PCB 123	95	30 - 140
13C12-PCB 126	89	30 - 140
13C12-PCB 155	130	30 - 140
13C12-PCB 156	95 C	30 - 140
13C12-PCB 157	95 C	30 - 140
13C12-PCB 167	93	30 - 140
13C12-PCB 169	76	30 - 140
13C12-PCB 170	102	30 - 140
13C12-PCB 188	99	30 - 140
13C12-PCB 189	131	30 - 140
13C12-PCB 202	107	30 - 140
13C12-PCB 205	98	30 - 140
13C12-PCB 206	83	30 - 140
13C12-PCB 208	86	30 - 140
13C12-PCB 209	81	30 - 140
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 28	101	40 - 125
13C12-PCB 111	101	40 - 125
13C12-PCB 178	100	40 - 125

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	Work Order #....:	H2H2X1AC	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	Work Order #....:	H2H201AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0070	ng/sampl
Dichlorobiphenyl (total)	4.0	Q B	0.40	0.18	ng/sampl
Heptachlorobiphenyl (total)	0.11	Q J	0.20	0.17	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0054	ng/sampl
Hexachlorobiphenyl (total)	0.24	J Q	0.20	0.27	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0080	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0080	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0057	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0057	ng/sampl
Monochlorobiphenyl (total)	0.18	B J Q	0.20	0.013	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.023	ng/sampl
Octachlorobiphenyl (total)	0.037	J	0.20	0.076	ng/sampl
Pentachlorobiphenyl (total)	0.66	J Q B	0.20	0.27	ng/sampl
PCB 105 (BZ)	0.037	Q J	0.20	0.0061	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0059	ng/sampl
PCB 118 (BZ)	0.093	J	0.20	0.0063	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0062	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0058	ng/sampl
Tetrachlorobiphenyl (total)	2.3	Q B	0.40	0.22	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 77 (BZ)	0.030	Q J	0.20	0.0069	ng/sampl
Trichlorobiphenyl (total)	6.2	Q B	0.40	0.16	ng/sampl

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	Work Order #....:	H2H201AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	76	30 - 140
13C12-PCB 3	75	30 - 140
13C12-PCB 4	94	30 - 140
13C12-PCB 15	89	30 - 140
13C12-PCB 19	96	30 - 140
13C12-PCB 37	103	30 - 140
13C12-PCB 54	99	30 - 140
13C12-PCB 77	100	30 - 140
13C12-PCB 81	99	30 - 140
13C12-PCB 104	103	30 - 140
13C12-PCB 105	106	30 - 140
13C12-PCB 114	102	30 - 140
13C12-PCB 118	104	30 - 140
13C12-PCB 123	99	30 - 140
13C12-PCB 126	112	30 - 140
13C12-PCB 155	116	30 - 140
13C12-PCB 156	106 C	30 - 140
13C12-PCB 157	106 C	30 - 140
13C12-PCB 167	103	30 - 140
13C12-PCB 169	106	30 - 140
13C12-PCB 170	104	30 - 140
13C12-PCB 188	94	30 - 140
13C12-PCB 189	97	30 - 140
13C12-PCB 202	109	30 - 140
13C12-PCB 205	109	30 - 140
13C12-PCB 206	116	30 - 140
13C12-PCB 208	112	30 - 140
13C12-PCB 209	131	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	98	40 - 125
13C12-PCB 111	105	40 - 125
13C12-PCB 178	90	40 - 125

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	Work Order #....:	H2H201AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	Work Order #....:	H2H211AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.014	ng/sampl
Dichlorobiphenyl (total)	0.60	Q B J	0.40	0.28	ng/sampl
Heptachlorobiphenyl (total)	0.022	Q J	0.20	0.24	ng/sampl
PCB 189 (BZ)	ND		0.20	0.010	ng/sampl
Hexachlorobiphenyl (total)	0.16	Q B J	0.20	0.49	ng/sampl
PCB 156 (BZ)	ND		0.20	0.014	ng/sampl
PCB 157 (BZ)	ND		0.20	0.014	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0095	ng/sampl
PCB 169 (BZ)	ND		0.20	0.017	ng/sampl
Monochlorobiphenyl (total)	0.032	B J	0.20	0.017	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.039	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.12	ng/sampl
Pentachlorobiphenyl (total)	0.29	J Q B	0.20	0.35	ng/sampl
PCB 105 (BZ)	0.024	Q J	0.20	0.0092	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0088	ng/sampl
PCB 118 (BZ)	0.046	Q J	0.20	0.0090	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0088	ng/sampl
PCB 126 (BZ)	ND		0.20	0.013	ng/sampl
Tetrachlorobiphenyl (total)	1.1	Q B J	0.40	0.38	ng/sampl
PCB 81 (BZ)	ND		0.20	0.011	ng/sampl
PCB 77 (BZ)	ND		0.20	0.013	ng/sampl
Trichlorobiphenyl (total)	1.4	Q J B	0.40	0.23	ng/sampl

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	Work Order #....:	H2H211AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	71	30 - 140
13C12-PCB 3	70	30 - 140
13C12-PCB 4	91	30 - 140
13C12-PCB 15	78	30 - 140
13C12-PCB 19	94	30 - 140
13C12-PCB 37	83	30 - 140
13C12-PCB 54	95	30 - 140
13C12-PCB 77	74	30 - 140
13C12-PCB 81	78	30 - 140
13C12-PCB 104	100	30 - 140
13C12-PCB 105	110	30 - 140
13C12-PCB 114	109	30 - 140
13C12-PCB 118	114	30 - 140
13C12-PCB 123	109	30 - 140
13C12-PCB 126	87	30 - 140
13C12-PCB 155	116	30 - 140
13C12-PCB 156	87 C	30 - 140
13C12-PCB 157	87 C	30 - 140
13C12-PCB 167	90	30 - 140
13C12-PCB 169	55	30 - 140
13C12-PCB 170	91	30 - 140
13C12-PCB 188	96	30 - 140
13C12-PCB 189	84	30 - 140
13C12-PCB 202	110	30 - 140
13C12-PCB 205	109	30 - 140
13C12-PCB 206	120	30 - 140
13C12-PCB 208	125	30 - 140
13C12-PCB 209	147 *	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 8	101	50 - 150
13C12-PCB 28	96	40 - 125
13C12-PCB 79	102	50 - 150
13C12-PCB 95	102	50 - 150
13C12-PCB 111	101	40 - 125
13C12-PCB 153	123	50 - 150
13C12-PCB 178	92	40 - 125

STL Knoxville - ACS
Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	Work Order #....:	H2H211AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	Work Order #....:	H2H221AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.015	ng/sampl
Dichlorobiphenyl (total)	2.1	Q B	0.40	0.20	ng/sampl
Heptachlorobiphenyl (total)	0.022	Q B J	0.20	0.21	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0045	ng/sampl
Hexachlorobiphenyl (total)	0.28	J Q B	0.20	0.31	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0066	ng/sampl
Monochlorobiphenyl (total)	0.15	B J	0.20	0.010	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.035	ng/sampl
Octachlorobiphenyl (total)	0.013	Q J	0.20	0.097	ng/sampl
Pentachlorobiphenyl (total)	0.94	J Q B	0.20	0.29	ng/sampl
PCB 105 (BZ)	0.037	B J	0.20	0.0047	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0044	ng/sampl
PCB 118 (BZ)	0.091	B J	0.20	0.0049	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0048	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0049	ng/sampl
Tetrachlorobiphenyl (total)	3.6	Q B	0.40	0.25	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0072	ng/sampl
PCB 77 (BZ)	0.024	Q J	0.20	0.0080	ng/sampl
Trichlorobiphenyl (total)	5.7	B Q	0.40	0.16	ng/sampl

STL Knoxville - ACS
Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 009	Work Order #....: H2H221AC	Matrix....: AIR
Date Sampled....: 03/28/06	Date Received....: 04/02/06	Dilution Factor: 1
Prep Date....: 04/10/06	Analysis Date....: 04/25/06	
Prep Batch #: 6100050		
Initial Wgt/Vol : I Sample	Instrument ID....: M1D	Method: EPA-22 1668A
Analyst ID....: Bruce F. Wagner		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	93	30 - 140
13C12-PCB 3	91	30 - 140
13C12-PCB 4	88	30 - 140
13C12-PCB 15	83	30 - 140
13C12-PCB 19	90	30 - 140
13C12-PCB 37	90	30 - 140
13C12-PCB 54	123	30 - 140
13C12-PCB 77	85	30 - 140
13C12-PCB 81	88	30 - 140
13C12-PCB 104	93	30 - 140
13C12-PCB 105	94	30 - 140
13C12-PCB 114	93	30 - 140
13C12-PCB 118	94	30 - 140
13C12-PCB 123	89	30 - 140
13C12-PCB 126	92	30 - 140
13C12-PCB 155	122	30 - 140
13C12-PCB 156	90 C	30 - 140
13C12-PCB 157	90 C	30 - 140
13C12-PCB 167	88	30 - 140
13C12-PCB 169	86	30 - 140
13C12-PCB 170	96	30 - 140
13C12-PCB 188	95	30 - 140
13C12-PCB 189	125	30 - 140
13C12-PCB 202	101	30 - 140
13C12-PCB 205	99	30 - 140
13C12-PCB 206	77	30 - 140
13C12-PCB 208	81	30 - 140
13C12-PCB 209	75	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	100	40 - 125
13C12-PCB 111	101	40 - 125
13C12-PCB 178	98	40 - 125

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	Work Order #....:	H2H221AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS
Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	Work Order #....:	H2H231AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.013	ng/sampl
Dichlorobiphenyl (total)	0.15	Q B J	0.40	0.28	ng/sampl
Heptachlorobiphenyl (total)	0.015	J	0.20	0.24	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0097	ng/sampl
Hexachlorobiphenyl (total)	0.046	J Q B	0.20	0.48	ng/sampl
PCB 156 (BZ)	ND		0.20	0.014	ng/sampl
PCB 157 (BZ)	ND		0.20	0.014	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0092	ng/sampl
PCB 169 (BZ)	ND		0.20	0.018	ng/sampl
Monochlorobiphenyl (total)	ND		0.20	0.019	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.035	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.10	ng/sampl
Pentachlorobiphenyl (total)	0.045	Q J	0.20	0.34	ng/sampl
PCB 105 (BZ)	ND		0.20	0.0083	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0079	ng/sampl
PCB 118 (BZ)	0.017	Q J	0.20	0.0082	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0083	ng/sampl
PCB 126 (BZ)	ND		0.20	0.011	ng/sampl
Tetrachlorobiphenyl (total)	0.072	Q B J	0.40	0.32	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0092	ng/sampl
PCB 77 (BZ)	ND		0.20	0.010	ng/sampl
Trichlorobiphenyl (total)	0.12	B J Q	0.40	0.20	ng/sampl

STL Knoxville - ACS
Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	Work Order #....:	H2H231AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 1	65	30 - 140
13C12-PCB 3	63	30 - 140
13C12-PCB 4	83	30 - 140
13C12-PCB 15	74	30 - 140
13C12-PCB 19	89	30 - 140
13C12-PCB 37	80	30 - 140
13C12-PCB 54	91	30 - 140
13C12-PCB 77	74	30 - 140
13C12-PCB 81	79	30 - 140
13C12-PCB 104	95	30 - 140
13C12-PCB 105	111	30 - 140
13C12-PCB 114	111	30 - 140
13C12-PCB 118	115	30 - 140
13C12-PCB 123	108	30 - 140
13C12-PCB 126	86	30 - 140
13C12-PCB 155	114	30 - 140
13C12-PCB 156	89 C	30 - 140
13C12-PCB 157	89 C	30 - 140
13C12-PCB 167	91	30 - 140
13C12-PCB 169	51	30 - 140
13C12-PCB 170	99	30 - 140
13C12-PCB 188	101	30 - 140
13C12-PCB 189	86	30 - 140
13C12-PCB 202	119	30 - 140
13C12-PCB 205	106	30 - 140
13C12-PCB 206	118	30 - 140
13C12-PCB 208	126	30 - 140
13C12-PCB 209	145 *	30 - 140

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 8	102	50 - 150
13C12-PCB 28	89	40 - 125
13C12-PCB 79	105	50 - 150
13C12-PCB 95	105	50 - 150
13C12-PCB 111	97	40 - 125
13C12-PCB 153	127	50 - 150
13C12-PCB 178	94	40 - 125

STL Knoxville - ACS
Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	Work Order #....:	H2H231AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	Work Order #....:	H2H241AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0086	ng/sampl
Dichlorobiphenyl (total)	2.6	B Q	0.40	0.27	ng/sampl
Heptachlorobiphenyl (total)	ND		0.20	0.20	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0065	ng/sampl
Hexachlorobiphenyl (total)	0.047	J Q	0.20	0.32	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0078	ng/sampl
Monochlorobiphenyl (total)	0.18	Q B J	0.20	0.017	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.030	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.094	ng/sampl
Pentachlorobiphenyl (total)	0.058	Q J	0.20	0.30	ng/sampl
PCB 105 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0066	ng/sampl
PCB 118 (BZ)	0.031	J	0.20	0.0073	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0074	ng/sampl
Tetrachlorobiphenyl (total)	0.51	Q B J	0.40	0.27	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0079	ng/sampl
PCB 77 (BZ)	0.017	Q J	0.20	0.0085	ng/sampl
Trichlorobiphenyl (total)	2.6	B Q	0.40	0.21	ng/sampl

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	Work Order #....:	H2H241AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	81	30 - 140
13C12-PCB 3	79	30 - 140
13C12-PCB 4	98	30 - 140
13C12-PCB 15	92	30 - 140
13C12-PCB 19	103	30 - 140
13C12-PCB 37	100	30 - 140
13C12-PCB 54	104	30 - 140
13C12-PCB 77	102	30 - 140
13C12-PCB 81	103	30 - 140
13C12-PCB 104	109	30 - 140
13C12-PCB 105	114	30 - 140
13C12-PCB 114	111	30 - 140
13C12-PCB 118	112	30 - 140
13C12-PCB 123	107	30 - 140
13C12-PCB 126	111	30 - 140
13C12-PCB 155	125	30 - 140
13C12-PCB 156	110 C	30 - 140
13C12-PCB 157	110 C	30 - 140
13C12-PCB 167	108	30 - 140
13C12-PCB 169	94	30 - 140
13C12-PCB 170	114	30 - 140
13C12-PCB 188	107	30 - 140
13C12-PCB 189	104	30 - 140
13C12-PCB 202	123	30 - 140
13C12-PCB 205	119	30 - 140
13C12-PCB 206	126	30 - 140
13C12-PCB 208	120	30 - 140
13C12-PCB 209	145 *	30 - 140
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	101	40 - 125
13C12-PCB 111	109	40 - 125
13C12-PCB 178	101	40 - 125

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	Work Order #....:	H2H241AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H251AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.015	ng/sampl
Dichlorobiphenyl (total)	4.9	Q B	0.40	0.33	ng/sampl
Heptachlorobiphenyl (total)	0.15	Q J	0.20	0.31	ng/sampl
PCB 189 (BZ)	ND		0.20	0.013	ng/sampl
Hexachlorobiphenyl (total)	0.47	Q B J	0.20	0.64	ng/sampl
PCB 156 (BZ)	0.056	C J	0.20	0.019	ng/sampl
PCB 157 (BZ)	0.056	C156 J	0.20	0.019	ng/sampl
PCB 167 (BZ)	0.021	Q J	0.20	0.013	ng/sampl
PCB 169 (BZ)	ND		0.20	0.021	ng/sampl
Monochlorobiphenyl (total)	0.91	B	0.20	0.026	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.052	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.15	ng/sampl
Pentachlorobiphenyl (total)	0.95	J Q B	0.20	0.48	ng/sampl
PCB 105 (BZ)	0.093	J	0.20	0.013	ng/sampl
PCB 114 (BZ)	ND		0.20	0.012	ng/sampl
PCB 118 (BZ)	0.16	J	0.20	0.012	ng/sampl
PCB 123 (BZ)	ND		0.20	0.012	ng/sampl
PCB 126 (BZ)	0.043	Q J	0.20	0.016	ng/sampl
Tetrachlorobiphenyl (total)	2.9	B Q	0.40	0.54	ng/sampl
PCB 81 (BZ)	ND		0.20	0.016	ng/sampl
PCB 77 (BZ)	0.12	Q J	0.20	0.017	ng/sampl
Trichlorobiphenyl (total)	6.1	B Q	0.40	0.35	ng/sampl

STL Knoxville - ACS
Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H251AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 1	63	30 - 140
13C12-PCB 3	62	30 - 140
13C12-PCB 4	83	30 - 140
13C12-PCB 15	73	30 - 140
13C12-PCB 19	88	30 - 140
13C12-PCB 37	77	30 - 140
13C12-PCB 54	84	30 - 140
13C12-PCB 77	72	30 - 140
13C12-PCB 81	76	30 - 140
13C12-PCB 104	94	30 - 140
13C12-PCB 105	112	30 - 140
13C12-PCB 114	111	30 - 140
13C12-PCB 118	115	30 - 140
13C12-PCB 123	109	30 - 140
13C12-PCB 126	90	30 - 140
13C12-PCB 155	111	30 - 140
13C12-PCB 156	87 C	30 - 140
13C12-PCB 157	87 C	30 - 140
13C12-PCB 167	89	30 - 140
13C12-PCB 169	55	30 - 140
13C12-PCB 170	93	30 - 140
13C12-PCB 188	97	30 - 140
13C12-PCB 189	83	30 - 140
13C12-PCB 202	114	30 - 140
13C12-PCB 205	104	30 - 140
13C12-PCB 206	120	30 - 140
13C12-PCB 208	130	30 - 140
13C12-PCB 209	149 *	30 - 140

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 8	102	50 - 150
13C12-PCB 28	85	40 - 125
13C12-PCB 79	106	50 - 150
13C12-PCB 95	103	50 - 150
13C12-PCB 111	96	40 - 125
13C12-PCB 153	126	50 - 150
13C12-PCB 178	91	40 - 125

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H251AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	MID	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS
Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	Work Order #....:	H2H261AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.013	ng/sampl
Dichlorobiphenyl (total)	0.68	Q B J	0.40	0.22	ng/sampl
Heptachlorobiphenyl (total)	ND		0.20	0.21	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0045	ng/sampl
Hexachlorobiphenyl (total)	0.10	Q B J	0.20	0.30	ng/sampl
PCB 156 (BZ)	0.012	Q C J	0.20	0.0081	ng/sampl
PCB 157 (BZ)	0.012	Q C156 J	0.20	0.0081	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0058	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0083	ng/sampl
Monochlorobiphenyl (total)	0.19	B J	0.20	0.011	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.032	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.10	ng/sampl
Pentachlorobiphenyl (total)	0.28	Q J B	0.20	0.27	ng/sampl
PCB 105 (BZ)	0.017	Q B J	0.20	0.0046	ng/sampl
PCB 114 (BZ)	0.0081	Q J	0.20	0.0043	ng/sampl
PCB 118 (BZ)	0.023	Q B J	0.20	0.0046	ng/sampl
PCB 123 (BZ)	0.017	Q B J	0.20	0.0046	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0053	ng/sampl
Tetrachlorobiphenyl (total)	0.73	J Q B	0.40	0.22	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0064	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0071	ng/sampl
Trichlorobiphenyl (total)	0.88	Q B J	0.40	0.13	ng/sampl

STL Knoxville - ACS
Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 013	Work Order #....: H2H261AC	Matrix....: AIR
Date Sampled....: 03/30/06	Date Received....: 04/02/06	Dilution Factor: 1
Prep Date....: 04/10/06	Analysis Date....: 04/25/06	
Prep Batch #: 6100050		
Initial Wgt/Vol : 1 Sample	Instrument ID....: M1D	Method: EPA-22 1668A
Analyst ID....: Bruce F. Wagner		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 1	85	30 - 140
13C12-PCB 3	82	30 - 140
13C12-PCB 4	80	30 - 140
13C12-PCB 15	73	30 - 140
13C12-PCB 19	82	30 - 140
13C12-PCB 37	78	30 - 140
13C12-PCB 54	114	30 - 140
13C12-PCB 77	73	30 - 140
13C12-PCB 81	76	30 - 140
13C12-PCB 104	83	30 - 140
13C12-PCB 105	87	30 - 140
13C12-PCB 114	85	30 - 140
13C12-PCB 118	87	30 - 140
13C12-PCB 123	83	30 - 140
13C12-PCB 126	79	30 - 140
13C12-PCB 155	109	30 - 140
13C12-PCB 156	85 C	30 - 140
13C12-PCB 157	85 C	30 - 140
13C12-PCB 167	82	30 - 140
13C12-PCB 169	59	30 - 140
13C12-PCB 170	90	30 - 140
13C12-PCB 188	86	30 - 140
13C12-PCB 189	106	30 - 140
13C12-PCB 202	98	30 - 140
13C12-PCB 205	87	30 - 140
13C12-PCB 206	76	30 - 140
13C12-PCB 208	78	30 - 140
13C12-PCB 209	77	30 - 140
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 28	98	40 - 125
13C12-PCB 111	100	40 - 125
13C12-PCB 178	96	40 - 125

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	Work Order #....:	H2H261AC	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/25/06		
Prep Batch #:	6100050				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS
Sample ID: A-5376 MEDIA CHECK XAD
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 014	Work Order #....: H2H271AC	Matrix....: AIR
Date Sampled....: 03/28/06	Date Received....: 04/02/06	Dilution Factor: 1
Prep Date....: 04/10/06	Analysis Date....: 04/19/06	
Prep Batch #: 6100047		
Initial Wgt/Vol : 1 Sample	Instrument ID....: MID	Method: EPA-22 1668A
Analyst ID....: Patricia(Trish) M. Parsly		

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0069	ng/sampl
Dichlorobiphenyl (total)	0.39	Q B J	0.40	0.18	ng/sampl
Heptachlorobiphenyl (total)	0.011	Q J	0.20	0.17	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0069	ng/sampl
Hexachlorobiphenyl (total)	0.042	Q B J	0.20	0.32	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0094	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0094	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 169 (BZ)	ND		0.20	0.011	ng/sampl
Monochlorobiphenyl (total)	0.13	B J Q	0.20	0.013	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.025	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.073	ng/sampl
Pentachlorobiphenyl (total)	0.065	Q J B	0.20	0.22	ng/sampl
PCB 105 (BZ)	ND		0.20	0.0059	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0055	ng/sampl
PCB 118 (BZ)	ND		0.20	0.0059	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0057	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0080	ng/sampl
Tetrachlorobiphenyl (total)	0.30	B J Q	0.40	0.26	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0074	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0084	ng/sampl
Trichlorobiphenyl (total)	0.40	B J Q	0.40	0.14	ng/sampl

STL Knoxville - ACS
Sample ID: A-5376 MEDIA CHECK XAD
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 014	Work Order #....:	H2H271AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 1	72	30 - 140
13C12-PCB 3	70	30 - 140
13C12-PCB 4	94	30 - 140
13C12-PCB 15	80	30 - 140
13C12-PCB 19	97	30 - 140
13C12-PCB 37	83	30 - 140
13C12-PCB 54	99	30 - 140
13C12-PCB 77	73	30 - 140
13C12-PCB 81	77	30 - 140
13C12-PCB 104	101	30 - 140
13C12-PCB 105	111	30 - 140
13C12-PCB 114	110	30 - 140
13C12-PCB 118	113	30 - 140
13C12-PCB 123	108	30 - 140
13C12-PCB 126	86	30 - 140
13C12-PCB 155	119	30 - 140
13C12-PCB 156	90 C	30 - 140
13C12-PCB 157	90 C	30 - 140
13C12-PCB 167	92	30 - 140
13C12-PCB 169	56	30 - 140
13C12-PCB 170	101	30 - 140
13C12-PCB 188	104	30 - 140
13C12-PCB 189	86	30 - 140
13C12-PCB 202	122	30 - 140
13C12-PCB 205	103	30 - 140
13C12-PCB 206	120	30 - 140
13C12-PCB 208	128	30 - 140
13C12-PCB 209	148 *	30 - 140
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 28	94	40 - 125
13C12-PCB 111	98	40 - 125
13C12-PCB 178	96	40 - 125

STL Knoxville - ACS
Sample ID: A-5376 MEDIA CHECK XAD
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 014	Work Order #....:	H2H271AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100047				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS
Sample ID: A-5378 MEDIA CHECK FILTER
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 015	Work Order #....: H2H281AC	Matrix....: AIR
Date Sampled....: 03/28/06	Date Received....: 04/02/06	Dilution Factor: 1
Prep Date....: 04/10/06	Analysis Date....: 04/18/06	
Prep Batch #: 6100045		
Initial Wgt/Vol : 1 Sample	Instrument ID....: M1D	Method: EPA-22 1668A
Analyst ID....: Patricia(Trish) M. Parsly		

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0073	ng/sampl
Dichlorobiphenyl (total)	0.13	Q B J	0.40	0.23	ng/sampl
Heptachlorobiphenyl (total)	ND		0.20	0.19	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0065	ng/sampl
Hexachlorobiphenyl (total)	ND		0.20	0.34	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0097	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0097	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0094	ng/sampl
Monochlorobiphenyl (total)	0.045	B J	0.20	0.013	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.031	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.099	ng/sampl
Pentachlorobiphenyl (total)	ND		0.20	0.29	ng/sampl
PCB 105 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 118 (BZ)	ND		0.20	0.0068	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0066	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0080	ng/sampl
Tetrachlorobiphenyl (total)	0.077	Q B J	0.40	0.23	ng/sampl
PCB 81 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0072	ng/sampl
Trichlorobiphenyl (total)	0.11	B J Q	0.40	0.15	ng/sampl

STL Knoxville - ACS
Sample ID: A-5378 MEDIA CHECK FILTER
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 015	Work Order #....:	H2H281AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 1	81	30 - 140
13C12-PCB 3	77	30 - 140
13C12-PCB 4	98	30 - 140
13C12-PCB 15	89	30 - 140
13C12-PCB 19	101	30 - 140
13C12-PCB 37	98	30 - 140
13C12-PCB 54	102	30 - 140
13C12-PCB 77	99	30 - 140
13C12-PCB 81	98	30 - 140
13C12-PCB 104	107	30 - 140
13C12-PCB 105	115	30 - 140
13C12-PCB 114	111	30 - 140
13C12-PCB 118	113	30 - 140
13C12-PCB 123	107	30 - 140
13C12-PCB 126	100	30 - 140
13C12-PCB 155	122	30 - 140
13C12-PCB 156	108 C	30 - 140
13C12-PCB 157	108 C	30 - 140
13C12-PCB 167	106	30 - 140
13C12-PCB 169	78	30 - 140
13C12-PCB 170	112	30 - 140
13C12-PCB 188	109	30 - 140
13C12-PCB 189	100	30 - 140
13C12-PCB 202	124	30 - 140
13C12-PCB 205	113	30 - 140
13C12-PCB 206	125	30 - 140
13C12-PCB 208	120	30 - 140
13C12-PCB 209	145 *	30 - 140
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C12-PCB 28	99	40 - 125
13C12-PCB 111	106	40 - 125
13C12-PCB 178	99	40 - 125

STL Knoxville - ACS
Sample ID: A-5378 MEDIA CHECK FILTER
Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 015	Work Order #....:	H2H281AC	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/18/06		
Prep Batch #:	6100045				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Sample Data Summary

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	Work Order #....:	H2H2A1AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	3.4	B J	20	0.70	ng/sampl
Acenaphthylene	9.1	J	20	0.23	ng/sampl
Anthracene	4.0	J	20	0.40	ng/sampl
Benzo(a)anthracene	1.7	B J	20	0.17	ng/sampl
Benzo(b)fluoranthene	4.2	B J	20	0.56	ng/sampl
Benzo(k)fluoranthene	3.1	B J	20	0.68	ng/sampl
Benzo(ghi)perylene	5.6	J	20	0.39	ng/sampl
Benzo(a)pyrene	2.7	B J	20	0.85	ng/sampl
Benzo(e)pyrene	4.5	B J	20	0.71	ng/sampl
Chrysene	3.5	B J	20	0.18	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.32	ng/sampl
Fluoranthene	27	B	20	0.51	ng/sampl
Fluorene	15	B J	20	0.48	ng/sampl
Indeno(1,2,3-cd)pyrene	3.3	B J	20	0.39	ng/sampl
2-Methylnaphthalene	31	B J	20	0.30	ng/sampl
Naphthalene	40	B J	20	0.35	ng/sampl
Perylene	ND		20	0.91	ng/sampl
Phenanthrene	140	B	20	0.34	ng/sampl
Pyrene	25	B J	20	0.49	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	100	20 - 120
Acenaphthylene-d8	106	20 - 120
Phenanthrene-d10	108	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	118	30 - 120
Chrysene-d12	105	30 - 120
Benzo(b)fluoranthene-d12	106	30 - 120
Benzo(k)fluoranthene-d12	107	30 - 120
Benzo(a)pyrene-d12	101	30 - 120
Perylene-d12	93	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	116	30 - 120
Benzo(ghi)perylene-d12	109	30 - 120

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	Work Order #....:	H2H2A1AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	Work Order #....:	H2H2M1AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	3.5	B J	20	0.78	ng/sampl
Acenaphthylene	14	J	20	0.24	ng/sampl
Anthracene	28		20	0.60	ng/sampl
Benzo(a)anthracene	5.4	J	20	0.23	ng/sampl
Benzo(b)fluoranthene	40	B	20	0.54	ng/sampl
Benzo(k)fluoranthene	4.3	J	20	0.66	ng/sampl
Benzo(ghi)perylene	4.0	J	20	0.67	ng/sampl
Benzo(a)pyrene	2.2	B J	20	0.81	ng/sampl
Benzo(e)pyrene	4.4	B J	20	0.70	ng/sampl
Chrysene	18	J	20	0.27	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.50	ng/sampl
Fluoranthene	100	B	20	0.43	ng/sampl
Fluorene	11	B J	20	0.92	ng/sampl
Indeno(1,2,3-cd)pyrene	3.8	J	20	0.71	ng/sampl
2-Methylnaphthalene	80	B J	20	0.38	ng/sampl
Naphthalene	880	B	20	0.73	ng/sampl
Perylene	3.5	B J	20	0.81	ng/sampl
Phenanthrene	300	B	20	0.53	ng/sampl
Pyrene	110	B	20	0.42	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	86	15 - 120
2-Methylnaphthalene-d10	91	20 - 120
Acenaphthylene-d8	107	20 - 120
Phenanthrene-d10	102	30 - 120
Fluoranthene-d10	104	30 - 120
Benzo(a)anthracene-d12	114	30 - 120
Chrysene-d12	106	30 - 120
Benzo(b)fluoranthene-d12	106	30 - 120
Benzo(k)fluoranthene-d12	110	30 - 120
Benzo(a)pyrene-d12	109	30 - 120
Perylene-d12	103	30 - 120
Indeno(1,2,3-cd)pyrene-d12	123	30 - 120
Dibenz(ah)anthracene-d14	127	30 - 120
Benzo(ghi)perylene-d12	123	30 - 120

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	Work Order #....:	H2H2M1AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Fluorene d-10	97	30 - 140
Terphenyl-d14	96	30 - 140
13C6-Fluorene	101	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	Work Order #....:	H2H2T1AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	1.5	J	20	0.98	ng/sampl
Acenaphthylene	ND		20	0.29	ng/sampl
Anthracene	7.8	J	20	0.65	ng/sampl
Benzo(a)anthracene	ND		20	0.48	ng/sampl
Benzo(b)fluoranthene	5.8	J	20	1.2	ng/sampl
Benzo(k)fluoranthene	5.5	J	20	1.5	ng/sampl
Benzo(ghi)perylene	15	B J	20	0.56	ng/sampl
Benzo(a)pyrene	3.4	B J	20	1.8	ng/sampl
Benzo(e)pyrene	5.1	B J	20	1.5	ng/sampl
Chrysene	4.7	B J	20	0.50	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.65	ng/sampl
Fluoranthene	26	B	20	0.28	ng/sampl
Fluorene	3.3	J	20	0.69	ng/sampl
Indeno(1,2,3-cd)pyrene	4.7	B J	20	0.60	ng/sampl
2-Methylnaphthalene	13	B J	20	0.56	ng/sampl
Naphthalene	30	B J	20	0.83	ng/sampl
Perylene	ND		20	1.7	ng/sampl
Phenanthrene	39	B J	20	0.56	ng/sampl
Pyrene	20	B J	20	0.27	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	96	20 - 120
Acenaphthylene-d8	106	20 - 120
Phenanthrene-d10	111	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	118	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	110	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	111	30 - 120
Perylene-d12	107	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	116	30 - 120
Benzo(ghi)perylene-d12	113	30 - 120

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	Work Order #....:	H2H2T1AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Anthracene-d10	104	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	Work Order #....:	H2H2V1AA	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	1.1	B J	20	0.98	ng/sampl
Acenaphthylene	ND		20	0.28	ng/sampl
Anthracene	ND		20	0.44	ng/sampl
Benzo(a)anthracene	ND		20	0.36	ng/sampl
Benzo(b)fluoranthene	ND		20	0.83	ng/sampl
Benzo(k)fluoranthene	ND		20	1.1	ng/sampl
Benzo(ghi)perylene	ND		20	0.75	ng/sampl
Benzo(a)pyrene	ND		20	1.4	ng/sampl
Benzo(e)pyrene	ND		20	1.1	ng/sampl
Chrysene	ND		20	0.39	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.41	ng/sampl
Fluoranthene	4.4	B J	20	0.24	ng/sampl
Fluorene	3.3	B J	20	0.51	ng/sampl
Indeno(1,2,3-cd)pyrene	ND		20	0.76	ng/sampl
2-Methylnaphthalene	12	B J	20	0.44	ng/sampl
Naphthalene	23	B J	20	0.51	ng/sampl
Perylene	ND		20	1.4	ng/sampl
Phenanthrene	25	B J	20	0.38	ng/sampl
Pyrene	6.4	B J	20	0.23	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	92	15 - 120
2-Methylnaphthalene-d10	97	20 - 120
Acenaphthylene-d8	100	20 - 120
Phenanthrene-d10	107	30 - 120
Fluoranthene-d10	108	30 - 120
Benzo(a)anthracene-d12	109	30 - 120
Chrysene-d12	98	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	104	30 - 120
Benzo(a)pyrene-d12	99	30 - 120
Perylene-d12	92	30 - 120
Indeno(1,2,3-cd)pyrene-d12	105	30 - 120
Dibenz(ah)anthracene-d14	106	30 - 120
Benzo(ghi)perylene-d12	106	30 - 120

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	Work Order #....:	H2H2V1AA	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	Work Order #....:	H2H2W1AA	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	3.3	B J	20	1.0	ng/sampl
Acenaphthylene	7.8	J	20	0.36	ng/sampl
Anthracene	8.1	J	20	0.88	ng/sampl
Benzo(a)anthracene	ND		20	0.35	ng/sampl
Benzo(b)fluoranthene	55	B	20	1.1	ng/sampl
Benzo(k)fluoranthene	4.6	J	20	1.4	ng/sampl
Benzo(ghi)perylene	4.4	J	20	1.4	ng/sampl
Benzo(a)pyrene	ND		20	1.7	ng/sampl
Benzo(e)pyrene	ND		20	1.5	ng/sampl
Chrysene	21		20	0.39	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.92	ng/sampl
Fluoranthene	32	B	20	0.52	ng/sampl
Fluorene	10	B J	20	0.93	ng/sampl
Indeno(1,2,3-cd)pyrene	ND		20	1.4	ng/sampl
2-Methylnaphthalene	52	B J	20	0.51	ng/sampl
Naphthalene	1900	B	20	0.67	ng/sampl
Perylene	ND		20	1.6	ng/sampl
Phenanthrene	96	B	20	0.77	ng/sampl
Pyrene	30	B J	20	0.51	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	89	15 - 120
2-Methylnaphthalene-d10	96	20 - 120
Acenaphthylene-d8	109	20 - 120
Phenanthrene-d10	111	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	108	30 - 120
Chrysene-d12	98	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	110	30 - 120
Benzo(a)pyrene-d12	105	30 - 120
Perylene-d12	101	30 - 120
Indeno(1,2,3-cd)pyrene-d12	104	30 - 120
Dibenz(ah)anthracene-d14	114	30 - 120
Benzo(ghi)perylene-d12	103	30 - 120

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	Work Order #....:	H2H2W1AA	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Fluorene d-10	101	30 - 140
Terphenyl-d14	102	30 - 140
13C6-Fluorene	106	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	Work Order #....:	H2H2X1AA	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	1.5	J	20	0.81	ng/sampl
Acenaphthylene	ND		20	0.23	ng/sampl
Anthracene	3.5	J	20	0.56	ng/sampl
Benzo(a)anthracene	ND		20	0.45	ng/sampl
Benzo(b)fluoranthene	3.9	J	20	0.93	ng/sampl
Benzo(k)fluoranthene	ND		20	1.2	ng/sampl
Benzo(ghi)perylene	18	B J	20	0.69	ng/sampl
Benzo(a)pyrene	2.7	B J	20	1.5	ng/sampl
Benzo(e)pyrene	5.3	B J	20	1.2	ng/sampl
Chrysene	3.1	B J	20	0.49	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.45	ng/sampl
Fluoranthene	18	B J	20	0.21	ng/sampl
Fluorene	2.8	J	20	0.49	ng/sampl
Indeno(1,2,3-cd)pyrene	5.3	B J	20	0.70	ng/sampl
2-Methylnaphthalene	13	B J	20	0.59	ng/sampl
Naphthalene	34	B J	20	0.54	ng/sampl
Perylene	ND		20	1.3	ng/sampl
Phenanthrene	27	B J	20	0.49	ng/sampl
Pyrene	15	B J	20	0.21	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	85	15 - 120
2-Methylnaphthalene-d10	91	20 - 120
Acenaphthylene-d8	98	20 - 120
Phenanthrene-d10	105	30 - 120
Fluoranthene-d10	106	30 - 120
Benzo(a)anthracene-d12	109	30 - 120
Chrysene-d12	97	30 - 120
Benzo(b)fluoranthene-d12	106	30 - 120
Benzo(k)fluoranthene-d12	105	30 - 120
Benzo(a)pyrene-d12	104	30 - 120
Perylene-d12	104	30 - 120
Indeno(1,2,3-cd)pyrene-d12	112	30 - 120
Dibenz(ah)anthracene-d14	115	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	Work Order #....:	H2H2X1AA	Matrix....:	AIR
Date Sampled....:	03/29/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Anthracene-d10	92	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	Work Order #....:	H2H201AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	1.9	B J	20	0.67	ng/sampl
Acenaphthylene	2.3	J	20	0.14	ng/sampl
Anthracene	6.0	J	20	0.41	ng/sampl
Benzo(a)anthracene	4.5	B J	20	0.25	ng/sampl
Benzo(b)fluoranthene	13	B J	20	0.78	ng/sampl
Benzo(k)fluoranthene	11	B J	20	1.0	ng/sampl
Benzo(ghi)perylene	11	J	20	0.55	ng/sampl
Benzo(a)pyrene	8.0	B J	20	1.3	ng/sampl
Benzo(e)pyrene	8.4	B J	20	1.1	ng/sampl
Chrysene	13	B J	20	0.27	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.55	ng/sampl
Fluoranthene	36	B	20	0.16	ng/sampl
Fluorene	5.8	B J	20	0.47	ng/sampl
Indeno(1,2,3-cd)pyrene	11	B J	20	0.60	ng/sampl
2-Methylnaphthalene	15	B J	20	0.40	ng/sampl
Naphthalene	28	B J	20	0.29	ng/sampl
Perylene	3.2	B J	20	1.1	ng/sampl
Phenanthrene	68	B	20	0.35	ng/sampl
Pyrene	28	B J	20	0.15	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	92	15 - 120
2-Methylnaphthalene-d10	98	20 - 120
Acenaphthylene-d8	108	20 - 120
Phenanthrene-d10	114	30 - 120
Fluoranthene-d10	111	30 - 120
Benzo(a)anthracene-d12	115	30 - 120
Chrysene-d12	103	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	108	30 - 120
Perylene-d12	107	30 - 120
Indeno(1,2,3-cd)pyrene-d12	116	30 - 120
Dibenz(ah)anthracene-d14	119	30 - 120
Benzo(ghi)perylene-d12	117	30 - 120

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MMS FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	Work Order #....:	H2H201AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	Work Order #....:	H2H211AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	4.2	B J	20	0.60	ng/sampl
Acenaphthylene	1.3	J	20	0.22	ng/sampl
Anthracene	ND		20	0.45	ng/sampl
Benzo(a)anthracene	ND		20	0.21	ng/sampl
Benzo(b)fluoranthene	39	B	20	0.51	ng/sampl
Benzo(k)fluoranthene	3.5	J	20	0.60	ng/sampl
Benzo(ghi)perylene	3.3	J	20	0.92	ng/sampl
Benzo(a)pyrene	ND		20	0.72	ng/sampl
Benzo(e)pyrene	ND		20	0.62	ng/sampl
Chrysene	2.4	J	20	0.24	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.64	ng/sampl
Fluoranthene	9.6	B J	20	0.46	ng/sampl
Fluorene	2.8	B J	20	0.43	ng/sampl
Indeno(1,2,3-cd)pyrene	1.4	J	20	0.82	ng/sampl
2-Methylnaphthalene	17	B J	20	0.33	ng/sampl
Naphthalene	200	B J	20	0.50	ng/sampl
Perylene	1.6	B J	20	0.68	ng/sampl
Phenanthrene	12	B J	20	0.39	ng/sampl
Pyrene	19	B J	20	0.45	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	85	15 - 120
2-Methylnaphthalene-d10	93	20 - 120
Acenaphthylene-d8	107	20 - 120
Phenanthrene-d10	111	30 - 120
Fluoranthene-d10	108	30 - 120
Benzo(a)anthracene-d12	110	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	111	30 - 120
Benzo(k)fluoranthene-d12	108	30 - 120
Benzo(a)pyrene-d12	109	30 - 120
Perylene-d12	109	30 - 120
Indeno(1,2,3-cd)pyrene-d12	124	30 - 120
Dibenz(ah)anthracene-d14	128	30 - 120
Benzo(ghi)perylene-d12	124	30 - 120

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	Work Order #....:	H2H211AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Fluorene d-10	97	30 - 140
Terphenyl-d14	92	30 - 140
13C6-Fluorene	102	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	Work Order #....:	H2H221AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	1.4	J	20	0.94	ng/sampl
Acenaphthylene	1.9	J	20	0.35	ng/sampl
Anthracene	3.9	J	20	0.60	ng/sampl
Benzo(a)anthracene	ND		20	0.40	ng/sampl
Benzo(b)fluoranthene	4.8	J	20	1.1	ng/sampl
Benzo(k)fluoranthene	9.9	J	20	1.4	ng/sampl
Benzo(ghi)perylene	13	B J	20	0.73	ng/sampl
Benzo(a)pyrene	3.5	B J	20	1.7	ng/sampl
Benzo(e)pyrene	5.0	B J	20	1.4	ng/sampl
Chrysene	4.4	B J	20	0.44	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.69	ng/sampl
Fluoranthene	26	B	20	0.19	ng/sampl
Fluorene	3.3	J	20	0.57	ng/sampl
Indeno(1,2,3-cd)pyrene	ND		20	0.77	ng/sampl
2-Methylnaphthalene	12	B J	20	0.50	ng/sampl
Naphthalene	24	B J	20	0.41	ng/sampl
Perylene	ND		20	1.6	ng/sampl
Phenanthrene	51	B	20	0.52	ng/sampl
Pyrene	19	B J	20	0.19	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	93	20 - 120
Acenaphthylene-d8	99	20 - 120
Phenanthrene-d10	106	30 - 120
Fluoranthene-d10	103	30 - 120
Benzo(a)anthracene-d12	104	30 - 120
Chrysene-d12	93	30 - 120
Benzo(b)fluoranthene-d12	107	30 - 120
Benzo(k)fluoranthene-d12	104	30 - 120
Benzo(a)pyrene-d12	103	30 - 120
Perylene-d12	100	30 - 120
Indeno(1,2,3-cd)pyrene-d12	109	30 - 120
Dibenz(ah)anthracene-d14	111	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	Work Order #....:	H2H221AA	Matrix....:	AIR
Date Sampled....:	03/28/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Anthracene-d10	103	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	Work Order #....:	H2H231AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	ND		20	0.76	ng/sampl
Acenaphthylene	ND		20	0.22	ng/sampl
Anthracene	0.50	J	20	0.45	ng/sampl
Benzo(a)anthracene	ND		20	0.20	ng/sampl
Benzo(b)fluoranthene	41	B	20	0.47	ng/sampl
Benzo(k)fluoranthene	ND		20	0.58	ng/sampl
Benzo(ghi)perylene	2.0	J	20	0.84	ng/sampl
Benzo(a)pyrene	ND		20	0.67	ng/sampl
Benzo(e)pyrene	ND		20	0.57	ng/sampl
Chrysene	ND		20	0.21	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.46	ng/sampl
Fluoranthene	1.2	B J	20	0.27	ng/sampl
Fluorene	2.3	B J	20	0.49	ng/sampl
Indeno(1,2,3-cd)pyrene	1.9	J	20	0.90	ng/sampl
2-Methylnaphthalene	13	B J	20	0.43	ng/sampl
Naphthalene	180	B J	20	0.67	ng/sampl
Perylene	ND		20	0.60	ng/sampl
Phenanthrene	5.5	B J	20	0.39	ng/sampl
Pyrene	1.4	B J	20	0.26	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	84	15 - 120
2-Methylnaphthalene-d10	92	20 - 120
Acenaphthylene-d8	105	20 - 120
Phenanthrene-d10	104	30 - 120
Fluoranthene-d10	106	30 - 120
Benzo(a)anthracene-d12	108	30 - 120
Chrysene-d12	101	30 - 120
Benzo(b)fluoranthene-d12	103	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	109	30 - 120
Perylene-d12	108	30 - 120
Indeno(1,2,3-cd)pyrene-d12	123	30 - 120
Dibenz(ah)anthracene-d14	126	30 - 120
Benzo(ghi)perylene-d12	119	30 - 120

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	Work Order #....:	H2H231AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Fluorene d-10	95	30 - 140
Terphenyl-d14	95	30 - 140
13C6-Fluorene	98	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	Work Order #....:	H2H241AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX 1D-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	2.0	B J	20	0.65	ng/sampl
Acenaphthylene	3.3	J	20	0.24	ng/sampl
Anthracene	ND		20	0.37	ng/sampl
Benzo(a)anthracene	ND		20	0.21	ng/sampl
Benzo(b)fluoranthene	4.1	B J	20	0.85	ng/sampl
Benzo(k)fluoranthene	ND		20	1.1	ng/sampl
Benzo(ghi)perylene	7.5	J	20	0.31	ng/sampl
Benzo(a)pyrene	4.3	B J	20	1.2	ng/sampl
Benzo(e)pyrene	3.2	B J	20	1.0	ng/sampl
Chrysene	ND		20	0.23	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.35	ng/sampl
Fluoranthene	7.3	B J	20	0.11	ng/sampl
Fluorene	6.4	B J	20	0.38	ng/sampl
Indeno(1,2,3-cd)pyrene	4.1	B J	20	0.33	ng/sampl
2-Methylnaphthalene	17	B J	20	0.33	ng/sampl
Naphthalene	35	B J	20	0.29	ng/sampl
Perylene	ND		20	1.1	ng/sampl
Phenanthrene	49	B	20	0.32	ng/sampl
Pyrene	5.0	B J	20	0.11	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	97	15 - 120
2-Methylnaphthalene-d10	99	20 - 120
Acenaphthylene-d8	108	20 - 120
Phenanthrene-d10	114	30 - 120
Fluoranthene-d10	114	30 - 120
Benzo(a)anthracene-d12	120	30 - 120
Chrysene-d12	107	30 - 120
Benzo(b)fluoranthene-d12	108	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	116	30 - 120
Perylene-d12	113	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	115	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	Work Order #....:	H2H241AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100051				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H251AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	6.5	B J	20	2.0	ng/sampl
Acenaphthylene	5.9	J	20	0.71	ng/sampl
Anthracene	11	J	20	1.0	ng/sampl
Benzo(a)anthracene	6.1	J	20	0.33	ng/sampl
Benzo(b)fluoranthene	40	B	20	0.69	ng/sampl
Benzo(k)fluoranthene	3.9	J	20	0.88	ng/sampl
Benzo(ghi)perylene	3.7	J	20	1.1	ng/sampl
Benzo(a)pyrene	ND		20	1.1	ng/sampl
Benzo(e)pyrene	2.5	B J	20	0.97	ng/sampl
Chrysene	5.7	J	20	0.37	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.72	ng/sampl
Fluoranthene	25	B	20	0.49	ng/sampl
Fluorene	11	B J	20	1.2	ng/sampl
Indeno(1,2,3-cd)pyrene	3.1	J	20	1.2	ng/sampl
2-Methylnaphthalene	67	B J	20	0.55	ng/sampl
Perylene	66	B	20	14	ng/sampl
Phenanthrene	65	B	20	0.89	ng/sampl
Pyrene	28	B J	20	0.48	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
2-Methylnaphthalene-d10	100	20 - 120
Acenaphthylene-d8	70	20 - 120
Phenanthrene-d10	106	30 - 120
Fluoranthene-d10	105	30 - 120
Benzo(a)anthracene-d12	111	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	107	30 - 120
Benzo(k)fluoranthene-d12	110	30 - 120
Benzo(a)pyrene-d12	96	30 - 120
Perylene-d12	7.4	30 - 120
Indeno(1,2,3-cd)pyrene-d12	126	30 - 120
Dibenz(ah)anthracene-d14	129	30 - 120
Benzo(ghi)perylene-d12	120	30 - 120

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H251AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Fluorene d-10	104	30 - 140
Terphenyl-d14	96	30 - 140
13C6-Fluorene	106	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H252AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	10
Prep Date....:	04/10/06	Analysis Date....:	04/28/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>PARAMETER</u>	<u>RESULT</u>	<u>MINIMUM LEVEL</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
Naphthalene	17000 B	200	1.8	ng/sampl

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Naphthalene-d8	84	15 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	Work Order #....:	H2H261AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	ND		20	1.3	ng/sampl
Acenaphthylene	ND		20	0.32	ng/sampl
Anthracene	ND		20	0.41	ng/sampl
Benzo(a)anthracene	ND		20	0.37	ng/sampl
Benzo(b)fluoranthene	2.3	J	20	1.2	ng/sampl
Benzo(k)fluoranthene	4.7	J	20	1.5	ng/sampl
Benzo(ghi)perylene	ND		20	0.67	ng/sampl
Benzo(a)pyrene	ND		20	1.9	ng/sampl
Benzo(e)pyrene	ND		20	1.6	ng/sampl
Chrysene	ND		20	0.43	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.65	ng/sampl
Fluoranthene	3.4	B J	20	0.17	ng/sampl
Fluorene	1.8	J	20	0.52	ng/sampl
Indeno(1,2,3-cd)pyrene	ND		20	0.68	ng/sampl
2-Methylnaphthalene	15	B J	20	0.80	ng/sampl
Naphthalene	72	B J	20	0.73	ng/sampl
Perylene	ND		20	1.8	ng/sampl
Phenanthrene	5.8	B J	20	0.36	ng/sampl
Pyrene	3.1	B J	20	0.16	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	80	15 - 120
2-Methylnaphthalene-d10	83	20 - 120
Acenaphthylene-d8	90	20 - 120
Phenanthrene-d10	91	30 - 120
Fluoranthene-d10	94	30 - 120
Benzo(a)anthracene-d12	94	30 - 120
Chrysene-d12	86	30 - 120
Benzo(b)fluoranthene-d12	97	30 - 120
Benzo(k)fluoranthene-d12	91	30 - 120
Benzo(a)pyrene-d12	88	30 - 120
Perylene-d12	88	30 - 120
Indeno(1,2,3-cd)pyrene-d12	94	30 - 120
Dibenz(ah)anthracene-d14	95	30 - 120
Benzo(ghi)perylene-d12	97	30 - 120

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	Work Order #....:	H2H261AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Anthracene-d10	82	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL Knoxville - ACS
Sample ID: A-5376 MEDIA CHECK XAD
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 014	Work Order #....: H2H271AA	Matrix....: AIR
Date Sampled....: 03/28/06	Date Received....: 04/02/06	Dilution Factor: 1
Prep Date....: 04/10/06	Analysis Date....: 04/28/06	
Prep Batch #: 6100060		
Initial Wgt/Vol : 1 Sample	Instrument ID....: H2A	Method: KNOX ID-0016
Analyst ID....: Jon M. Nordquist		

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Benzo(a)anthracene	ND	20	0.19	ng/sampl
Benzo(b)fluoranthene	33 B	20	0.48	ng/sampl
Benzo(k)fluoranthene	ND	20	0.62	ng/sampl
Benzo(a)pyrene	ND	20	0.76	ng/sampl
Chrysene	ND	20	0.20	ng/sampl
Dibenz(a,h)anthracene	ND	20	0.48	ng/sampl
Indeno(1,2,3-cd)pyrene	ND	20	0.64	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)anthracene-d12	100	30 - 120
Chrysene-d12	96	30 - 120
Benzo(b)fluoranthene-d12	107	30 - 120
Benzo(k)fluoranthene-d12	112	30 - 120
Benzo(a)pyrene-d12	102	30 - 120
Indeno(1,2,3-cd)pyrene-d12	126 *	30 - 120
Dibenz(ah)anthracene-d14	125 *	30 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS
Sample ID: A-5378 MEDIA CHECK FILTER
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 015	Work Order #....: H2H281AA	Matrix....: AIR
Date Sampled....: 03/28/06	Date Received....: 04/02/06	Dilution Factor: 1
Prep Date....: 04/10/06	Analysis Date....: 04/18/06	
Prep Batch #: 6100051		
Initial Wgt/Vol : 1 Sample	Instrument ID....: H2A	Method: KNOX ID-0016
Analyst ID....: Jon M. Nordquist		

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Benzo(a)anthracene	0.98	B J	20	0.21	ng/sampl
Benzo(b)fluoranthene	3.2	B J	20	0.80	ng/sampl
Benzo(k)fluoranthene	2.5	B J	20	1.1	ng/sampl
Benzo(a)pyrene	ND		20	1.4	ng/sampl
Chrysene	1.1	B J	20	0.21	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.34	ng/sampl
Indeno(1,2,3-cd)pyrene	3.1	B J	20	0.50	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)anthracene-d12	107	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	110	30 - 120
Benzo(k)fluoranthene-d12	107	30 - 120
Benzo(a)pyrene-d12	99	30 - 120
Indeno(1,2,3-cd)pyrene-d12	99	30 - 120
Dibenz(ah)anthracene-d14	98	30 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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