EPA Region 5 Records Ctr.
311776

FINAL REPORT

REMEDIAL INVESTIGATION REPORT

ASHLAND/NORTHERN STATES POWER LAKEFRONT SUPERFUND SITE

VOLUME 6 OF 12

Prepared for

Northern States Power Company - WI
1414 West Hamilton Avenue
Eau Claire, WI 54701

August 31, 2007

URS

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APPENDIX E5

ECOLOGICAL (FISH TISSUE) SAMPLES

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APPENDIX E5

ECOLOGICAL (FISH TISSUE) SAMPLES

SEVERN TRENT STL

Geotechnical Analysis
Sample Data Summary Package

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-1-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569142

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	3.1	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-1-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569143

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 23.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	3.5	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-1-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569144

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 23.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	3.5	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-1-8

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569149

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 24.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	3.3	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-2-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569152

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	2.4	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-2-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569153

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	3.0	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-2-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569154

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	2.5	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-2-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569155

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	3.2	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-2-DU

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569160

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	2.6	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-2

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569161

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	3.0	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-2REP

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569161DP

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	05/01/04		%	3.0		3.2		6

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-9

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569173

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 23.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	3.3	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-10

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569174

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	3.6	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-11

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569175

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	3.2	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-12

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569176

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 21.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	2.8	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-13

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569177

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 21.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	2.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-14

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569178

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 21.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	2.9	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-15

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569179

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	3.3	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-16

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569180

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	3.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-DU

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569181

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	3.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569182

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 21.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	3.3	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3REP

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569182DP

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 21.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	05/02/04		%	3.3		2.6		24

Control Limit for RPD is +/- 20%, unless otherwise specified.

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569145

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.5	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1-5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569146

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.6	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1-6

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569147

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 20.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.7	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1-7

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569148

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 21.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.7	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1-DUP

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569150

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 19.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.4	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569151

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 20.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.5	

Printed on: 05/12/04 10:04 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1REP

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569151DP

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	05/01/04		%	1.5		1.7		13

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-2-5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569156

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 23.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.8	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-2-6

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569157

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.7	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-2-7

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569158

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.7	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-2-8

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569159

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	1.6	

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569163

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	2.1	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569166

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	1.8	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569167

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	1.9	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-6

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99877

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569168

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 20.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	1.6	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-7

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99877

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569169

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 22.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	1.4	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-8

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569170

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 21.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	1.8	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-DUP

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569171

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	1.6	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569172

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	1.5	

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3REP

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569172DP

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	05/02/04		%	1.5		1.3		14

Control Limit for RPD is +/- 20%, unless otherwise specified.

Printed on: 05/14/04 09:39 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EB1

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569162

Matrix: WATER

Client: URSCO9

Date Received: 04/24/04

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/01/04		%	1	0.1	0.1	U

Printed on: 05/12/04 10:05 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EB2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99877

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569183

Matrix: WATER | Client: URSCO9 | Date Received: 04/24/04

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	05/02/04		%	1	0.1	0.1	U

Printed on: 05/14/04 09:39 AM

STL Burlington
Colchester, Vermont

Extended Data Package

SDG: 99866

SEVERN TRENT STL

NARRATIVE

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

May 17, 2004

Mr. Brian Bemer
URS Corporation
10200 Innovation Dr.
Suite 500
Milwaukee, WI 53226

Re: Laboratory Project No. 24000
Case: 24000; SDG: 99866

Dear Mr. Bemer:

Enclosed are the analytical results for samples received by STL Burlington on April 24, 2004. This report is sequentially numbered starting with page 0001 and ending with page 0476. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/24/04	ETR No: 99866	
569142	NSTAOMORDAX-W-1-1	04/21/04	Tissue
569143	NSTAOMORDAX-W-1-2	04/21/04	Tissue
569144	NSTAOMORDAX-W-1-3	04/21/04	Tissue
569145	NSTAOMORDAX-F-1-4	04/21/04	Tissue
569146	NSTAOMORDAX-F-1-5	04/21/04	Tissue
569147	NSTAOMORDAX-F-1-6	04/21/04	Tissue
569148	NSTAOMORDAX-F-1-7	04/21/04	Tissue
569149	NSTAOMORDAX-W-1-8	04/21/04	Tissue
569150	NSTAOMORDAX-F-1-DUP	04/21/04	Tissue
569151	NSTAOMORDAX-F-1	04/21/04	Tissue
569151MS	NSTAOMORDAX-F-1MS	04/21/04	Tissue
569151MD	NSTAOMORDAX-F-1MSD	04/21/04	Tissue
569152	NSTAOMORDAX-W-2-1	04/21/04	Tissue
569153	NSTAOMORDAX-W-2-2	04/21/04	Tissue
569154	NSTAOMORDAX-W-2-3	04/21/04	Tissue
569155	NSTAOMORDAX-W-2-4	04/21/04	Tissue
569156	NSTAOMORDAX-F-2-5	04/21/04	Tissue
569157	NSTAOMORDAX-F-2-6	04/21/04	Tissue
569158	NSTAOMORDAX-F-2-7	04/21/04	Tissue
569159	NSTAOMORDAX-F-2-8	04/21/04	Tissue
569160	NSTAOMORDAX-W-2-DUP	04/21/04	Tissue
569161	NSTAOMORDAX-W-2	04/21/04	Tissue
569161MS	NSTAOMORDAX-W-2MS	04/21/04	Tissue
569161MD	NSTAOMORDAX-W-2MSD	04/21/04	Tissue
569162	EB1		Water

Leaders in Environmental Testing

Severn Trent Laboratories, Inc.

Documentation of the condition of the samples at the time their receipt and any exceptions to the laboratory's Sample Acceptance Policy is included in the Sample Handling section of this submittal.

Client sample identifications were abbreviated on the report forms due to limitations with the data processing software. The entire sample identifier appears in the electronic deliverable with the exception of certain hyphens that were removed due to limitations of the laboratory's login system.

Please note that the results for the samples in this delivery group are reported on a wet weight basis.

An equipment blank was generated at the time of tissue preparation/homogenization. This equipment blank was carried through the analytical process and the results reported on the same weight/weight basis as the samples. The analysis of the equipment blank was free of contamination.

The PAH analyses of the matrix spikes associated with sample NSTAOMORDAX-W-2 yielded percent recoveries for Naphthalene that were below the lower control limit. The associated blank spike analysis exhibited acceptable recoveries for all compounds.

The analytical results presented in this data report were generated under a quality system that adheres to the requirements specified in the NELAC standard. This report shall not be reproduced, except in full, without the written approval of the laboratory. The release of the data in this report is authorized by the Laboratory Director or his designee, as verified by the following signature.

If there are any questions regarding this submittal, please contact Don Dawicki at (802) 655-1203.

Sincerely,

Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: URS Corp
Address: 10200 Innovation Dr. Ste. 500 Milwaukee WI 53226
Contact: Brian Berner
Phone: 414-831-4100
Fax: 414-831-4101
Contract/Quote: Quote # 2593

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:

Lab Use Only Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Ben Nelson, Brian Berner

Sampler's Signature:

Proj. No.: 25688375

Project Name: Ashland/NSP Lakefront Site

ANALYSIS REQUESTED: SIM PAH; Lipids; % Solids

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	Lipids	% Solids	Lab/Sample ID (Lab Use Only)
TA	4/21				NS-TA-OMORDAX-W-1-1				1	X	X	X	569142
TA	4/21				NS-TA-OMORDAX-W-1-2				1	X	X	X	569143
TA	4/21				NS-TA-OMORDAX-W-1-3				1	X	X	X	569144
TA	4/21				NS-TA-OMORDAX-F-1-4				1	X	X	X	569145
TA	4/21				NS-TA-OMORDAX-F-1-5				1	X	X	X	569146
TA	4/21				NS-TA-OMORDAX-F-1-6				1	X	X	X	569147
TA	4/21				NS-TA-OMORDAX-F-1-7				1	X	X	X	569148
TA	4/21				NS-TA-OMORDAX-W-1-8				1	X	X	X	569149
TA	4/21				NS-TA-OMORDAX-F-1-Dup				1	X	X	X	569150
TA	4/21				NS-TA-OMORDAX-F-1-MS/MSD				1	X	X	X	569151

Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
	4-23-04	1200			
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date 4/23/04	Time 1200

Remarks: Custody Seal # 344054

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vac. Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: URS Corp
Address: 10200 Innovation Dr. Ste 500 Milwaukee WI 53226
Contact: Brian Berner
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote: Quote 2593

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:

Sampler's Name: Ben Nelson, Brian Berner
Sampler's Signature:

Proj. No.: 25688375
Project Name: Ashland/NSP Lakefront Site

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No/Type of Containers[2] VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	Lipids	% Solids	Lab/Sample ID (Lab Use Only)
TA	4/21				NS-TA-OMORDAX-W-2-1				1	X	X	X	569152
TA	4/21				NS-TA-OMORDAX-W-2-2				1	X	X	X	569153
TA	4/21				NS-TA-OMORDAX-W-2-3				1	X	X	X	569154
TA	4/21				NS-TA-OMORDAX-W-2-4				1	X	X	X	569155
TA	4/21				NS-TA-OMORDAX-F-2-5				1	X	X	X	569156
TA	4/21				NS-TA-OMORDAX-F-2-6				1	X	X	X	569157
TA	4/21				NS-TA-OMORDAX-F-2-7				1	X	X	X	569158
TA	4/21				NS-TA-OMORDAX-F-2-8				1	X	X	X	569159
TA	4/21				NS-TA-OMORDAX-W-2-Dup				1	X	X	X	569160
TA	4/21				NS-TA-OMORDAX-W-2-MS/MSD				1	X	X	X	569161

Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
	4-23-04	1200			
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date 4/23/04	Time 1200

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vac Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT STL

Sample Report Summary
For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-1-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569142

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.9	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-1-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569143

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 23.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		23.2	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-1-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569144

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 23.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		23.2	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-1-8

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569149

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 24.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		24.5	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-2-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569152

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.5	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-2-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569153

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.1	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-2-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569154

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.5	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-2-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569155

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.6	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-2-DU

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569160

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.1	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569161

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.8	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3-9

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569173

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 23.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		23.4	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-10

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99877

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569174

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.0	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3-11

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569175

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.3	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3-12

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569176

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.6	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3-13

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569177

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.8	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3-14

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569178

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.2	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3-15

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569179

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.8	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3-16

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569180

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.7	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-W-3-DU

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99877

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569181

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.0	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-W-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569182

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.7	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-1-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569145

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.6	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-1-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569146

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.3	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-1-6

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569147

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.5	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-1-7

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569148

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.7	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-1-DUP

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99866

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569150

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 19.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		19.6	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569151

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.8	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-2-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569156

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 23.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		23.1	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-2-6

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569157

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.4	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-2-7

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 99866

Lab Code: STLVT | Case No.: 24000 | Lab Sample ID: 569158

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/24/04

% Solids: 20.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.9	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-2-8

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99866

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569159

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.3	

Printed on: 05/11/04 08:17 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NSTAOMORDAX-F-3-1

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 99877

Lab Code: STLVT

Case No.: 24000

Lab Sample ID: 569163

Matrix: TISSUE

Client: URSCO9

Date Received: 04/24/04

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.8	

Printed on: 05/11/04 08:31 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569164

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.1	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569165

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.2	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569166

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.0	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569167

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.3	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-6

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569168

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.4	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-7

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569169

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 22.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		22.2	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-8

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569170

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 21.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		21.6	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3-DUP

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569171

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.6	

Printed on: 05/11/04 08:32 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NSTAOMORDAX-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 99877

Lab Code: STLVT
Case No.: 24000
Lab Sample ID: 569172

Matrix: TISSUE
Client: URSCO9
Date Received: 04/24/04

% Solids: 20.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	05/04/04	N/A	%	1.0		20.2	

Printed on: 05/11/04 08:32 AM

SEVERN TRENT STL

Supportive Documentation For Wet Chemistry

SEVERN TRENT STL

Wet Chemistry Raw Data

For Percent Solids

STL Burlington --- PERCENT SOLID REPORT --- 5-MAY-2004 11:51:54 --- JM3

Method: IN623

Analyst: MNT

Date/Time in: 05/04/04 1415

Date/Time out: 05/05/04 1055

Batch: LF

Date Entered: 05-05-04
Entered by: MNT

Date Verified: 05-05-04
Verified by: JM3

Lab ID	Mass of Dish (g)	Mass of Dish and Wet Sample (g)	Mass of Dish and Dry Sample (g)	Percent Solid
569142	0.97	5.25	1.95	22.8972
569143	0.96	5.45	2.00	23.1626
569144	0.95	5.18	1.93	23.1678
569145	0.95	5.02	1.79	20.6388
569146	0.96	5.26	1.92	22.3256
569147	0.96	5.98	1.99	20.5179
569148	0.96	5.29	1.90	21.7090
569149	0.96	5.17	1.99	24.4656
569150	0.96	5.35	1.82	19.5900
569151	0.97	4.00	1.60	20.7921
569151MD	0.97	4.00	1.60	20.7921
569151MS	0.97	4.00	1.60	20.7921
569152	0.96	5.59	2.00	22.4622
569153	0.97	4.68	1.79	22.1024
569154	0.96	5.36	1.95	22.5000
569155	0.96	5.17	1.91	22.5653
569156	0.95	5.06	1.90	23.1144
569157	0.95	4.34	1.71	22.4189
569158	0.96	5.60	1.93	20.9052

STL Burlington --- PERCENT SOLID REPORT --- 5-MAY-2004 11:52:19 --- JM3

Method: IN623

Batch: LG

Analyst: MNT

Date Entered: 05-05-04
Entered by: MNT

Date/Time in: 05/04/04 1415

Date Verified: 05-05-04
Verified by: JM3

Date/Time out: 05/05/04 1055

Lab ID	Mass of Dish (g)	Mass of Dish and Wet Sample (g)	Mass of Dish and Dry Sample (g)	Percent Solid
569159	0.97	4.71	1.73	20.3209
569160	0.96	5.39	1.94	22.1219
569161	0.95	3.32	1.49	22.7848
569161MD	0.95	3.32	1.49	22.7848
569161MS	0.95	3.32	1.49	22.7848
569163	0.96	4.33	1.73	22.8487
569164	0.95	4.32	1.66	21.0682
569165	0.95	4.87	1.78	21.1735
569166	0.95	3.65	1.49	20.0000
569167	0.96	4.33	1.71	22.2552
569168	0.95	4.68	1.71	20.3753
569169	0.95	5.13	1.88	22.2488
569170	0.95	4.60	1.74	21.6438
569171	0.96	3.87	1.56	20.6186
569172	0.96	4.37	1.65	20.2346
569172MD	0.96	4.37	1.65	20.2346
569172MS	0.96	4.37	1.65	20.2346
569173	0.96	4.90	1.88	23.3503
569174	0.95	5.00	1.84	21.9753
569175	0.95	4.72	1.79	22.2812

Percent Solids Benchsheet

Date In: 05/04/04
Time In: 1418
Analyst: MNM

Date Out: 5/5/04
Time Out: 1055
Analyst: MNM

LAB ID plus EPA ID	Dish #	Mass of Dish (g)	Mass of Dish & Wet Sample (g)	Mass of Dish & Dry Sample (g)
569142	1	0.97	5.25	1.95
569143	2	0.96	5.45	2.00
569144	3	0.95	5.18	1.93
569145	4	0.95	5.02	1.79
569146	5	0.96	5.26	1.92
569147	6	0.96	5.98	1.99
569148	7	0.96	5.29	1.90
569149	8	0.96	5.17	1.99
~~569149~~	~~9~~			MNM ~~05/14/04~~
569150	10	0.96	5.35	1.82
569151	11	0.97	4.00	1.60
569151MS				
569151MD				
569152	12	0.96	5.59	2.00
569153	13	0.97	4.68	1.79
569154	14	0.96	5.36	1.95
569155	15	0.96	5.17	1.91
569156	16	0.95	5.06	1.90
569157	17	0.95	4.34	1.71
569158	18	0.96	5.60	1.93

%W/W = grams dry X 100
grams wet

Entered by: MNM
Date: 5/5/04
Batch: LF

grams dry = weight of dry sample (g) - weight of dish (g)
grams wet = weight of wet sample (g) - weight of dish (g)

FWC065:09.02.03:0
STL Burlington

Percent Solids Benchsheet

Date In: 05/04/04
Time In: 1415
Analyst: MNM

Date Out: 5/5/04
Time Out: 1055
Analyst: MNM

LAB ID plus EPA ID	Dish #	Mass of Dish (g)	Mass of Dish & Wet Sample (g)	Mass of Dish & Dry Sample (g)
569159	19	0.97	4.71	1.73
569160	20	0.96	5.39	1.94
569161	21	0.95	3.32	1.49
569161MS				
569161MD				
569163	22	0.96	4.33	1.73
569164	23	0.95	4.32	1.66
569165	24	0.95	4.87	1.78
569166	25	0.95	3.65	1.49
569167	26	0.96	4.33	1.71
569168	27	0.95	4.68	1.71
569169	28	0.95	5.13	1.88
569170	29	0.95	4.60	1.74
569171	30	0.96	3.87	1.56
569172	31	0.96	4.37	1.65
569172MS				
569172MD				
569173	32	0.96	4.90	1.88
569174	33	0.95	5.00	1.84
569175	34	0.95	4.72	1.79

%W/W = grams dry X 100
grams wet

grams dry = weight of dry sample (g) - weight of dish (g)
grams wet = weight of wet sample (g) - weight of dish (g)

Entered by: MNM
Date: 5/5/04
Batch: B 26

0031

STL Burlington --- PERCENT SOLID REPORT --- 5-MAY-2004 11:51:54 --- JM3

Method: IN623

Batch: LF

Analyst: MNT

Date Entered: 05-05-04
Entered by: MNT

Date/Time in: 05/04/04 1415

Date Verified: 05-05-04
Verified by: JM3

Date/Time out: 05/05/04 1055

Lab ID	Mass of Dish (g)	Mass of Dish and Wet Sample (g)	Mass of Dish and Dry Sample (g)	Percent Solid
569142	0.97	5.25	1.95	22.8972
569143	0.96	5.45	2.00	23.1626
569144	0.95	5.18	1.93	23.1678
569145	0.95	5.02	1.79	20.6388
569146	0.96	5.26	1.92	22.3256
569147	0.96	5.98	1.99	20.5179
569148	0.96	5.29	1.90	21.7090
569149	0.96	5.17	1.99	24.4656
569150	0.96	5.35	1.82	19.5900
569151	0.97	4.00	1.60	20.7921
569151MD	0.97	4.00	1.60	20.7921
569151MS	0.97	4.00	1.60	20.7921
569152	0.96	5.59	2.00	22.4622
569153	0.97	4.68	1.79	22.1024
569154	0.96	5.36	1.95	22.5000
569155	0.96	5.17	1.91	22.5653
569156	0.95	5.06	1.90	23.1144
569157	0.95	4.34	1.71	22.4189
569158	0.96	5.60	1.93	20.9052

STL Burlington --- PERCENT SOLID REPORT --- 5-MAY-2004 11:52:19 --- JM3

Method: IN623

Batch: LG

Analyst: MNT

Date Entered: 05-05-04
Entered by: MNT

Date/Time in: 05/04/04 1415

Date Verified: 05-05-04
Verified by: JM3

Date/Time out: 05/05/04 1055

Lab ID	Mass of Dish (g)	Mass of Dish and Wet Sample (g)	Mass of Dish and Dry Sample (g)	Percent Solid
569159	0.97	4.71	1.73	20.3209
569160	0.96	5.39	1.94	22.1219
569161	0.95	3.32	1.49	22.7848
569161MD	0.95	3.32	1.49	22.7848
569161MS	0.95	3.32	1.49	22.7848
569163	0.96	4.33	1.73	22.8487
569164	0.95	4.32	1.66	21.0682
569165	0.95	4.87	1.78	21.1735
569166	0.95	3.65	1.49	20.0000
569167	0.96	4.33	1.71	22.2552
569168	0.95	4.68	1.71	20.3753
569169	0.95	5.13	1.88	22.2488
569170	0.95	4.60	1.74	21.6438
569171	0.96	3.87	1.56	20.6186
569172	0.96	4.37	1.65	20.2346
569172MD	0.96	4.37	1.65	20.2346
569172MS	0.96	4.37	1.65	20.2346
569173	0.96	4.90	1.88	23.3503
569174	0.95	5.00	1.84	21.9753
569175	0.95	4.72	1.79	22.2812

Percent Solids Benchsheet

Date In: 05/04/04
Time In: 1415
Analyst: MNM

Date Out: 5/5/04
Time Out: 1055
Analyst: MNM

LAB ID plus EPA ID	Dish #	Mass of Dish (g)	Mass of Dish & Wet Sample (g)	Mass of Dish & Dry Sample (g)
569142	1	0.97	5.25	1.95
569143	2	0.96	5.45	2.00
569144	3	0.95	5.18	1.93
569145	4	0.95	5.02	1.79
569146	5	0.96	5.26	1.92
569147	6	0.96	5.98	1.99
569148	7	0.96	5.29	1.90
569149	8	0.96	5.17	1.99
~~569149~~	~~9~~			~~MNM 05/4/04~~
569150	10	0.96	5.35	1.82
569151	11	0.97	4.00	1.60
569151MS				
569151MD				
569152	12	0.96	5.59	2.00
569153	13	0.97	4.68	1.79
569154	14	0.96	5.36	1.95
569155	15	0.96	5.17	1.91
569156	16	0.95	5.06	1.90
569157	17	0.95	4.34	1.71
569158	18	0.96	5.60	1.93

$$\%W/W = \frac{\text{grams dry}}{\text{grams wet}} \times 100$$

Entered by: MNM
Date: 5/5/04
Batch: LF

grams dry = weight of dry sample (g) - weight of dish (g)
grams wet = weight of wet sample (g) - weight of dish (g)

Percent Solids Benchsheet

Date In: 05/04/04
Time In: 1415
Analyst: MNM

Date Out: 5/5/04
Time Out: 1055
Analyst: MNM

LAB ID plus EPA ID	Dish #	Mass of Dish (g)	Mass of Dish & Wet Sample (g)	Mass of Dish & Dry Sample (g)
569159	19	0.97	4.71	1.73
569160	20	0.96	5.39	1.94
569161	21	0.95	3.32	1.49
569161 MS				
569161 MD				
569163	22	0.96	4.33	1.73
569164	23	0.95	4.32	1.66
569165	24	0.95	4.87	1.78
569166	25	0.95	3.65	1.49
569167	26	0.96	4.33	1.71
569168	27	0.95	4.68	1.71
569169	28	0.95	5.13	1.88
569170	29	0.95	4.60	1.74
569171	30	0.96	3.87	1.56
569172	31	0.96	4.37	1.65
569172 MS				
569172 MD				
569173	32	0.96	4.90	1.88
569174	33	0.95	5.00	1.84
569175	34	0.95	4.72	1.79

%W/W = grams dry X 100
grams wet

grams dry = weight of dry sample (g) - weight of dish (g)
grams wet = weight of wet sample (g) - weight of dish (g)

Entered by: MNM
Date: 5/5/04
Batch: 16

0031

SEVERN TRENT STL

SAT PAH

SAMPLE DATA SUMMARY PACKAGE

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

EB1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569162

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569162

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-1-1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569142

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569142

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.2	
91-57-6	2-Methylnaphthalene	2.0	
90-12-0	1-Methylnaphthalene	2.3	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	4.6	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.7	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.6	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

W-1-2

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569143

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569143

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.3	
91-57-6	2-Methylnaphthalene	3.3	
90-12-0	1-Methylnaphthalene	6.3	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.9	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	7.4	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	4.6	
132-65-0	Dibenzothiophene	2.3	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.2	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-1-3

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569144

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569144

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.6	
91-57-6	2-Methylnaphthalene	3.9	
90-12-0	1-Methylnaphthalene	5.9	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.7	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	8.3	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	5.7	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.6	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-1-8

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569149

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569149

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/07/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.2	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	3.8	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-2

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569161

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569161

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/11/04

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	8.6	
90-12-0	1-Methylnaphthalene	4.3	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.2	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	8.4	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	6.9	
132-65-0	Dibenzothiophene	2.1	
85-01-8	Phenanthrene	23	
120-12-7	Anthracene	2.6	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	9.8	
129-00-0	Pyrene	5.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

W-2-1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569152

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569152

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/07/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.7	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.4	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	4.2	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

W-2-2

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569153

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569153

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/07/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	
91-57-6	2-Methylnaphthalene	2.3	
90-12-0	1-Methylnaphthalene	2.4	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	5.8	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	4.7	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	5.0	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

W-2-3

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569154

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569154

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/07/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.4	
91-57-6	2-Methylnaphthalene	2.1	
90-12-0	1-Methylnaphthalene	2.3	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	4.3	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.5	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	5.3	
129-00-0	Pyrene	2.3	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-2-4

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569155

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569155

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	80	
91-57-6	2-Methylnaphthalene	43	
90-12-0	1-Methylnaphthalene	72	
92-52-4	Biphenyl	7.0	
581-42-0	2,6 Dimethylnaphthalene	20	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	69	
2245-38-7	2,3,5 Trimethylnaphthalene	6.2	
86-73-7	Fluorene	21	
132-65-0	Dibenzothiophene	4.0	
85-01-8	Phenanthrene	35	
120-12-7	Anthracene	8.1	
832-69-9	1-Methylphenanthrene	3.3	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	7.4	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-2-DUP

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569160

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569160

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.4	
91-57-6	2-Methylnaphthalene	2.2	
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.4	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.4	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	5.1	
129-00-0	Pyrene	3.2	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-9

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569173

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569173D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 3.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	280	
91-57-6	2-Methylnaphthalene	160	
90-12-0	1-Methylnaphthalene	260	
92-52-4	Biphenyl	23	
581-42-0	2,6 Dimethylnaphthalene	82	
208-96-8	Acenaphthylene	10	
83-32-9	Acenaphthene	220	
2245-38-7	2,3,5 Trimethylnaphthalene	31	
86-73-7	Fluorene	72	
132-65-0	Dibenzothiophene	14	
85-01-8	Phenanthrene	130	
120-12-7	Anthracene	43	
832-69-9	1-Methylphenanthrene	61	
206-44-0	Fluoranthene	97	
129-00-0	Pyrene	130	
56-55-3	Benzo(a)anthracene	59	
218-01-9	Chrysene	47	
205-99-2	Benzo(b)fluoranthene	42	
207-08-9	Benzo(k)fluoranthene	28	
192-97-2	Benzo(e)pyrene	29	
50-32-8	Benzo(a)pyrene	53	
198-55-0	Perylene	8.6	
193-39-5	Indeno(1,2,3-cd)pyrene	17	
53-70-3	Dibenz(a,h)anthracene	6.1	J
191-24-2	Benzo(g,h,i)perylene	22	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-10

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569174

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569174

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	100	
91-57-6	2-Methylnaphthalene	53	
90-12-0	1-Methylnaphthalene	95	
92-52-4	Biphenyl	7.8	
581-42-0	2,6 Dimethylnaphthalene	27	
208-96-8	Acenaphthylene	2.1	
83-32-9	Acenaphthene	84	
2245-38-7	2,3,5 Trimethylnaphthalene	8.5	
86-73-7	Fluorene	26	
132-65-0	Dibenzothiophene	4.1	
85-01-8	Phenanthrene	40	
120-12-7	Anthracene	7.4	
832-69-9	1-Methylphenanthrene	6.6	
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-11

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569175

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569175D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/19/04

Injection Volume: 2.0(uL) Dilution Factor: 1.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	100	
91-57-6	2-Methylnaphthalene	60	
90-12-0	1-Methylnaphthalene	100	
92-52-4	Biphenyl	9.2	
581-42-0	2,6 Dimethylnaphthalene	33	
208-96-8	Acenaphthylene	2.4	J
83-32-9	Acenaphthene	93	
2245-38-7	2,3,5 Trimethylnaphthalene	7.9	
86-73-7	Fluorene	30	
132-65-0	Dibenzothiophene	4.9	
85-01-8	Phenanthrene	42	
120-12-7	Anthracene	10	
832-69-9	1-Methylphenanthrene	5.0	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	2.0	J
218-01-9	Chrysene	2.6	J
205-99-2	Benzo(b)fluoranthene	2.7	U
207-08-9	Benzo(k)fluoranthene	2.7	U
192-97-2	Benzo(e)pyrene	2.7	U
50-32-8	Benzo(a)pyrene	2.7	U
198-55-0	Perylene	2.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.7	U
53-70-3	Dibenz(a,h)anthracene	2.7	U
191-24-2	Benzo(g,h,i)perylene	2.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-14

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569178

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569178D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	160	
91-57-6	2-Methylnaphthalene	100	
90-12-0	1-Methylnaphthalene	170	
92-52-4	Biphenyl	15	
581-42-0	2,6 Dimethylnaphthalene	53	
208-96-8	Acenaphthylene	4.0	
83-32-9	Acenaphthene	150	
2245-38-7	2,3,5 Trimethylnaphthalene	16	
86-73-7	Fluorene	48	
132-65-0	Dibenzothiophene	7.5	
85-01-8	Phenanthrene	66	
120-12-7	Anthracene	15	
832-69-9	1-Methylphenanthrene	10	
206-44-0	Fluoranthene	20	
129-00-0	Pyrene	21	
56-55-3	Benzo(a)anthracene	2.1	J
218-01-9	Chrysene	2.8	J
205-99-2	Benzo(b)fluoranthene	4.0	U
207-08-9	Benzo(k)fluoranthene	4.0	U
192-97-2	Benzo(e)pyrene	4.0	U
50-32-8	Benzo(a)pyrene	2.1	J
198-55-0	Perylene	4.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.0	U
53-70-3	Dibenz(a,h)anthracene	4.0	U
191-24-2	Benzo(g,h,i)perylene	4.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-12

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569176

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569176D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	130	
91-57-6	2-Methylnaphthalene	78	
90-12-0	1-Methylnaphthalene	130	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	40	
208-96-8	Acenaphthylene	3.4	J
83-32-9	Acenaphthene	120	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	36	
132-65-0	Dibenzothiophene	6.0	
85-01-8	Phenanthrene	50	
120-12-7	Anthracene	14	
832-69-9	1-Methylphenanthrene	9.1	
206-44-0	Fluoranthene	18	
129-00-0	Pyrene	22	
56-55-3	Benzo(a)anthracene	4.6	
218-01-9	Chrysene	4.8	
205-99-2	Benzo(b)fluoranthene	3.5	J
207-08-9	Benzo(k)fluoranthene	3.0	J
192-97-2	Benzo(e)pyrene	3.0	J
50-32-8	Benzo(a)pyrene	5.3	
198-55-0	Perylene	4.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.0	U
53-70-3	Dibenz(a,h)anthracene	4.0	U
191-24-2	Benzo(g,h,i)perylene	4.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-13

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569177

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569177D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	75	
90-12-0	1-Methylnaphthalene	130	
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	40	
208-96-8	Acenaphthylene	4.2	
83-32-9	Acenaphthene	120	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	38	
132-65-0	Dibenzothiophene	5.6	
85-01-8	Phenanthrene	48	
120-12-7	Anthracene	14	
832-69-9	1-Methylphenanthrene	9.2	
206-44-0	Fluoranthene	18	
129-00-0	Pyrene	20	
56-55-3	Benzo(a)anthracene	6.8	
218-01-9	Chrysene	5.7	
205-99-2	Benzo(b)fluoranthene	7.2	
207-08-9	Benzo(k)fluoranthene	5.7	
192-97-2	Benzo(e)pyrene	5.0	
50-32-8	Benzo(a)pyrene	9.5	
198-55-0	Perylene	4.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.4	J
53-70-3	Dibenz(a,h)anthracene	4.0	U
191-24-2	Benzo(g,h,i)perylene	3.6	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-15

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569179

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569179

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	76	
91-57-6	2-Methylnaphthalene	43	
90-12-0	1-Methylnaphthalene	72	
92-52-4	Biphenyl	6.0	
581-42-0	2,6 Dimethylnaphthalene	22	
208-96-8	Acenaphthylene	2.4	
83-32-9	Acenaphthene	67	
2245-38-7	2,3,5 Trimethylnaphthalene	8.1	
86-73-7	Fluorene	21	
132-65-0	Dibenzothiophene	3.6	
85-01-8	Phenanthrene	29	
120-12-7	Anthracene	7.1	
832-69-9	1-Methylphenanthrene	5.1	
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	19	
56-55-3	Benzo(a)anthracene	5.9	
218-01-9	Chrysene	5.3	
205-99-2	Benzo(b)fluoranthene	4.4	
207-08-9	Benzo(k)fluoranthene	3.6	
192-97-2	Benzo(e)pyrene	3.7	
50-32-8	Benzo(a)pyrene	6.5	
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.2	
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.3	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-16

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569180

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569180D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/18/04

Injection Volume: 2.0 (uL) Dilution Factor: 1.7

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	140	
91-57-6	2-Methylnaphthalene	80	
90-12-0	1-Methylnaphthalene	130	
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	41	
208-96-8	Acenaphthylene	3.4	
83-32-9	Acenaphthene	120	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	37	
132-65-0	Dibenzothiophene	5.9	
85-01-8	Phenanthrene	49	
120-12-7	Anthracene	12	
832-69-9	1-Methylphenanthrene	8.0	
206-44-0	Fluoranthene	17	
129-00-0	Pyrene	19	
56-55-3	Benzo(a)anthracene	3.4	
218-01-9	Chrysene	3.7	
205-99-2	Benzo(b)fluoranthene	2.2	J
207-08-9	Benzo(k)fluoranthene	3.3	U
192-97-2	Benzo(e)pyrene	3.3	U
50-32-8	Benzo(a)pyrene	3.0	J
198-55-0	Perylene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenz(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569182

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569182D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 3.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	280	
91-57-6	2-Methylnaphthalene	170	
90-12-0	1-Methylnaphthalene	270	
92-52-4	Biphenyl	24	
581-42-0	2,6 Dimethylnaphthalene	86	
208-96-8	Acenaphthylene	6.4	J
83-32-9	Acenaphthene	240	
2245-38-7	2,3,5 Trimethylnaphthalene	26	
86-73-7	Fluorene	73	
132-65-0	Dibenzothiophene	11	
85-01-8	Phenanthrene	94	
120-12-7	Anthracene	28	
832-69-9	1-Methylphenanthrene	18	
206-44-0	Fluoranthene	32	
129-00-0	Pyrene	37	
56-55-3	Benzo(a)anthracene	5.6	J
218-01-9	Chrysene	6.3	J
205-99-2	Benzo(b)fluoranthene	3.8	J
207-08-9	Benzo(k)fluoranthene	3.3	J
192-97-2	Benzo(e)pyrene	3.4	J
50-32-8	Benzo(a)pyrene	5.5	J
198-55-0	Perylene	6.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	U
53-70-3	Dibenz(a,h)anthracene	6.7	U
191-24-2	Benzo(g,h,i)perylene	6.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3-DUP2

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569181

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569181

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/14/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	78	
91-57-6	2-Methylnaphthalene	46	
90-12-0	1-Methylnaphthalene	72	
92-52-4	Biphenyl	7.2	
581-42-0	2,6 Dimethylnaphthalene	30	
208-96-8	Acenaphthylene	2.1	
83-32-9	Acenaphthene	77	
2245-38-7	2,3,5 Trimethylnaphthalene	8.4	
86-73-7	Fluorene	31	
132-65-0	Dibenzothiophene	3.9	
85-01-8	Phenanthrene	31	
120-12-7	Anthracene	7.1	
832-69-9	1-Methylphenanthrene	5.0	
206-44-0	Fluoranthene	9.5	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569151

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569151

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/07/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.3	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.1	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	5.7	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

F-1-4

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569145

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569145

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	4.2	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-1-5

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569146

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569146

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.5	
91-57-6	2-Methylnaphthalene	2.7	
90-12-0	1-Methylnaphthalene	4.2	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.2	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	5.9	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.2	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	8.6	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.8	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-1-6

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569147

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569147

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.2	
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	5.2	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

F-1-7

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569148

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569148

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.1	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	4.4	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

F-1-DUP

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569150

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569150

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/07/04

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	3.3	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-2-5

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569156

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569156

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.1	
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	4.0	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.2	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.7	
129-00-0	Pyrene	2.1	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-2-6

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569157

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569157

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.1	
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.8	
83-32-9	Acenaphthene	3.7	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.5	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	9.7	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	8.7	
205-99-2	Benzo(b)fluoranthene	8.5	
207-08-9	Benzo(k)fluoranthene	10	
192-97-2	Benzo(e)pyrene	8.1	
50-32-8	Benzo(a)pyrene	14	
198-55-0	Perylene	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	5.5	
53-70-3	Dibenz(a,h)anthracene	2.3	
191-24-2	Benzo(g,h,i)perylene	6.6	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-2-7

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569158

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569158

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/11/04

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	2.7	
90-12-0	1-Methylnaphthalene	2.6	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.8	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.5	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	8.6	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.2	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

F-2-8

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569159

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569159

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.1	
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.1	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.2	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	8.5	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.3	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569172

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569172D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 1.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	98	
91-57-6	2-Methylnaphthalene	62	
90-12-0	1-Methylnaphthalene	100	
92-52-4	Biphenyl	8.8	
581-42-0	2,6 Dimethylnaphthalene	31	
208-96-8	Acenaphthylene	2.2	J
83-32-9	Acenaphthene	92	
2245-38-7	2,3,5 Trimethylnaphthalene	9.3	
86-73-7	Fluorene	28	
132-65-0	Dibenzothiophene	4.5	
85-01-8	Phenanthrene	36	
120-12-7	Anthracene	9.6	
832-69-9	1-Methylphenanthrene	6.0	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	2.7	U
218-01-9	Chrysene	2.7	U
205-99-2	Benzo(b)fluoranthene	2.7	U
207-08-9	Benzo(k)fluoranthene	2.7	U
192-97-2	Benzo(e)pyrene	2.7	U
50-32-8	Benzo(a)pyrene	2.7	U
198-55-0	Perylene	2.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.7	U
53-70-3	Dibenz(a,h)anthracene	2.7	U
191-24-2	Benzo(g,h,i)perylene	2.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569163

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569163D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	130	
91-57-6	2-Methylnaphthalene	73	
90-12-0	1-Methylnaphthalene	120	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	35	
208-96-8	Acenaphthylene	2.4	J
83-32-9	Acenaphthene	110	
2245-38-7	2,3,5 Trimethylnaphthalene	9.8	
86-73-7	Fluorene	32	
132-65-0	Dibenzothiophene	4.9	
85-01-8	Phenanthrene	40	
120-12-7	Anthracene	15	
832-69-9	1-Methylphenanthrene	5.4	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	4.0	U
218-01-9	Chrysene	4.0	U
205-99-2	Benzo(b)fluoranthene	4.0	U
207-08-9	Benzo(k)fluoranthene	4.0	U
192-97-2	Benzo(e)pyrene	4.0	U
50-32-8	Benzo(a)pyrene	4.0	U
198-55-0	Perylene	4.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.0	U
53-70-3	Dibenz(a,h)anthracene	4.0	U
191-24-2	Benzo(g,h,i)perylene	4.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-2

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569164

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569164

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/11/04

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	77	
91-57-6	2-Methylnaphthalene	47	
90-12-0	1-Methylnaphthalene	82	
92-52-4	Biphenyl	7.3	
581-42-0	2,6 Dimethylnaphthalene	24	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	78	
2245-38-7	2,3,5 Trimethylnaphthalene	7.3	
86-73-7	Fluorene	24	
132-65-0	Dibenzothiophene	3.9	
85-01-8	Phenanthrene	30	
120-12-7	Anthracene	8.3	
832-69-9	1-Methylphenanthrene	3.3	
206-44-0	Fluoranthene	8.9	
129-00-0	Pyrene	9.2	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-3

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569165

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569165

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	86	
91-57-6	2-Methylnaphthalene	53	
90-12-0	1-Methylnaphthalene	90	
92-52-4	Biphenyl	8.3	
581-42-0	2,6 Dimethylnaphthalene	26	
208-96-8	Acenaphthylene	2.2	
83-32-9	Acenaphthene	85	
2245-38-7	2,3,5 Trimethylnaphthalene	8.4	
86-73-7	Fluorene	24	
132-65-0	Dibenzothiophene	4.2	
85-01-8	Phenanthrene	33	
120-12-7	Anthracene	9.0	
832-69-9	1-Methylphenanthrene	4.3	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-4

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569166

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569166D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/18/04

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	130	
91-57-6	2-Methylnaphthalene	78	
90-12-0	1-Methylnaphthalene	130	
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	36	
208-96-8	Acenaphthylene	2.5	J
83-32-9	Acenaphthene	110	
2245-38-7	2,3,5 Trimethylnaphthalene	10	
86-73-7	Fluorene	24	
132-65-0	Dibenzothiophene	5.1	
85-01-8	Phenanthrene	43	
120-12-7	Anthracene	15	
832-69-9	1-Methylphenanthrene	6.0	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	14	
56-55-3	Benzo(a)anthracene	4.0	U
218-01-9	Chrysene	4.0	U
205-99-2	Benzo(b)fluoranthene	4.0	U
207-08-9	Benzo(k)fluoranthene	4.0	U
192-97-2	Benzo(e)pyrene	4.0	U
50-32-8	Benzo(a)pyrene	4.0	U
198-55-0	Perylene	4.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.0	U
53-70-3	Dibenz(a,h)anthracene	4.0	U
191-24-2	Benzo(g,h,i)perylene	4.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-5

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569167

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569167D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/18/04

Injection Volume: 2.0 (uL) Dilution Factor: 2.9

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	180	
91-57-6	2-Methylnaphthalene	110	
90-12-0	1-Methylnaphthalene	170	
92-52-4	Biphenyl	16	
581-42-0	2,6 Dimethylnaphthalene	54	
208-96-8	Acenaphthylene	4.0	J
83-32-9	Acenaphthene	150	
2245-38-7	2,3,5 Trimethylnaphthalene	14	
86-73-7	Fluorene	45	
132-65-0	Dibenzothiophene	8.2	
85-01-8	Phenanthrene	60	
120-12-7	Anthracene	21	
832-69-9	1-Methylphenanthrene	9.6	
206-44-0	Fluoranthene	20	
129-00-0	Pyrene	23	
56-55-3	Benzo(a)anthracene	5.7	U
218-01-9	Chrysene	5.7	U
205-99-2	Benzo(b)fluoranthene	5.7	U
207-08-9	Benzo(k)fluoranthene	5.7	U
192-97-2	Benzo(e)pyrene	5.7	U
50-32-8	Benzo(a)pyrene	5.7	U
198-55-0	Perylene	5.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.7	U
53-70-3	Dibenz(a,h)anthracene	5.7	U
191-24-2	Benzo(g,h,i)perylene	5.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-6

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569168

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569168

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	43	
91-57-6	2-Methylnaphthalene	26	
90-12-0	1-Methylnaphthalene	49	
92-52-4	Biphenyl	4.4	
581-42-0	2,6 Dimethylnaphthalene	14	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	50	
2245-38-7	2,3,5 Trimethylnaphthalene	4.8	
86-73-7	Fluorene	16	
132-65-0	Dibenzothiophene	2.6	
85-01-8	Phenanthrene	21	
120-12-7	Anthracene	4.8	
832-69-9	1-Methylphenanthrene	2.7	
206-44-0	Fluoranthene	6.1	
129-00-0	Pyrene	6.1	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-7

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569169

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569169

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	34	
91-57-6	2-Methylnaphthalene	19	
90-12-0	1-Methylnaphthalene	36	
92-52-4	Biphenyl	3.1	
581-42-0	2,6 Dimethylnaphthalene	9.9	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	38	
2245-38-7	2,3,5 Trimethylnaphthalene	3.5	
86-73-7	Fluorene	10	
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	4.0	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	4.3	
129-00-0	Pyrene	4.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-8

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569170

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569170D

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	140	
91-57-6	2-Methylnaphthalene	89	
90-12-0	1-Methylnaphthalene	140	
92-52-4	Biphenyl	13	
581-42-0	2,6 Dimethylnaphthalene	47	
208-96-8	Acenaphthylene	3.2	J
83-32-9	Acenaphthene	130	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	40	
132-65-0	Dibenzothiophene	6.3	
85-01-8	Phenanthrene	48	
120-12-7	Anthracene	17	
832-69-9	1-Methylphenanthrene	7.6	
206-44-0	Fluoranthene	15	
129-00-0	Pyrene	15	
56-55-3	Benzo(a)anthracene	4.0	U
218-01-9	Chrysene	4.0	U
205-99-2	Benzo(b)fluoranthene	4.0	U
207-08-9	Benzo(k)fluoranthene	4.0	U
192-97-2	Benzo(e)pyrene	4.0	U
50-32-8	Benzo(a)pyrene	4.0	U
198-55-0	Perylene	4.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.0	U
53-70-3	Dibenz(a,h)anthracene	4.0	U
191-24-2	Benzo(g,h,i)perylene	4.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3-DUP1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569171

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569171

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/13/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	100	
91-57-6	2-Methylnaphthalene	64	
90-12-0	1-Methylnaphthalene	96	
92-52-4	Biphenyl	8.8	
581-42-0	2,6 Dimethylnaphthalene	34	
208-96-8	Acenaphthylene	2.1	
83-32-9	Acenaphthene	84	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	
86-73-7	Fluorene	30	
132-65-0	Dibenzothiophene	4.4	
85-01-8	Phenanthrene	34	
120-12-7	Anthracene	11	
832-69-9	1-Methylphenanthrene	5.3	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKA1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: SBLKA1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0430A1

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250I4 Date Analyzed: 05/11/04

Instrument ID: Z Time Analyzed: 1159

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	45674	22.71				
	UPPER LIMIT	91348	23.21				
	LOWER LIMIT	22837	22.21				
	STLVT SAMPLE NO.						
01	W-2-4	19691*	22.73				
02	F-2-5	22551*	22.73				
03	F-2-6	25091	22.72				
04	F-2-7	23772	22.72				
05	F-2-8	22361*	22.73				
06	W-2-DUP	26687	22.74				
07	W-2	18952*	22.74				
08	W-2MS	16930*	22.73				
09	W-2MSD	27572	22.73				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-1MS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569151MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569151M

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/07/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	12	
90-12-0	1-Methylnaphthalene	13	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	9.1	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	13	
2245-38-7	2,3,5 Trimethylnaphthalene	11	
86-73-7	Fluorene	12	
132-65-0	Dibenzothiophene	11	
85-01-8	Phenanthrene	17	
120-12-7	Anthracene	11	
832-69-9	1-Methylphenanthrene	11	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	13	
207-08-9	Benzo(k)fluoranthene	9.8	
192-97-2	Benzo(e)pyrene	11	
50-32-8	Benzo(a)pyrene	11	
198-55-0	Perylene	11	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenz(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	11	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

F-1MSD

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569151MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569151S

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/07/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	12	
90-12-0	1-Methylnaphthalene	12	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	9.0	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	13	
2245-38-7	2,3,5 Trimethylnaphthalene	11	
86-73-7	Fluorene	12	
132-65-0	Dibenzothiophene	12	
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	12	
832-69-9	1-Methylphenanthrene	11	
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	12	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	14	
207-08-9	Benzo(k)fluoranthene	11	
192-97-2	Benzo(e)pyrene	11	
50-32-8	Benzo(a)pyrene	12	
198-55-0	Perylene	10	
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenz(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	11	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-2MS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569161MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569161M

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/11/04

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	16	
91-57-6	2-Methylnaphthalene	15	
90-12-0	1-Methylnaphthalene	13	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	10	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	18	
2245-38-7	2,3,5 Trimethylnaphthalene	12	
86-73-7	Fluorene	16	
132-65-0	Dibenzothiophene	13	
85-01-8	Phenanthrene	32	
120-12-7	Anthracene	13	
832-69-9	1-Methylphenanthrene	12	
206-44-0	Fluoranthene	20	
129-00-0	Pyrene	15	
56-55-3	Benzo(a)anthracene	12	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	12	
192-97-2	Benzo(e)pyrene	11	
50-32-8	Benzo(a)pyrene	11	
198-55-0	Perylene	9.8	
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenz(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	11	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-2MSD

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: 569161MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569161S

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/11/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	16	
91-57-6	2-Methylnaphthalene	16	
90-12-0	1-Methylnaphthalene	14	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	20	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	17	
132-65-0	Dibenzothiophene	13	
85-01-8	Phenanthrene	35	
120-12-7	Anthracene	13	
832-69-9	1-Methylphenanthrene	13	
206-44-0	Fluoranthene	20	
129-00-0	Pyrene	16	
56-55-3	Benzo(a)anthracene	12	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	13	
192-97-2	Benzo(e)pyrene	12	
50-32-8	Benzo(a)pyrene	12	
198-55-0	Perylene	9.9	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenz(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	11	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

A1LCS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix: (soil/water) TISSUE Lab Sample ID: A1LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0430A1

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/30/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	11	
90-12-0	1-Methylnaphthalene	11	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	10	
208-96-8	Acenaphthylene	9.7	
83-32-9	Acenaphthene	9.9	
2245-38-7	2,3,5 Trimethylnaphthalene	10	
86-73-7	Fluorene	10	
132-65-0	Dibenzothiophene	10	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	9.5	
832-69-9	1-Methylphenanthrene	9.3	
206-44-0	Fluoranthene	8.8	
129-00-0	Pyrene	8.4	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	10	
205-99-2	Benzo(b)fluoranthene	8.1	
207-08-9	Benzo(k)fluoranthene	9.3	
192-97-2	Benzo(e)pyrene	9.5	
50-32-8	Benzo(a)pyrene	9.5	
198-55-0	Perylene	8.9	
193-39-5	Indeno(1,2,3-cd)pyrene	7.6	
53-70-3	Dibenz(a,h)anthracene	6.0	
191-24-2	Benzo(g,h,i)perylene	7.0	

FORM 2
TISSUE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Level:(low/med) LOW

	STLVT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLKA1	74	74	66	51	46				0
02	EB1	81	79	77	70	49				0
03	A1LCS	85	89	78	65	65				0
04	W-1-1	61	63	60	46	32				0
05	W-1-2	68	70	66	54	28				0
06	W-1-3	71	77	73	56	34				0
07	F-1-4	65	70	65	55	46				0
08	F-1-5	62	66	64	52	39				0
09	F-1-6	68	75	72	57	35				0
10	F-1-7	78	85	82	66	51				0
11	W-1-8	46	50	48	44	33				0
12	F-1-DUP	72	76	78	76	54				0
13	F-1	83	89	90	87	61				0
14	F-1MS	78	84	85	78	53				0
15	F-1MSD	92	95	89	84	57				0
16	W-2-1	77	80	79	79	57				0
17	W-2-2	78	82	84	81	46				0
18	W-2-3	57	64	62	62	47				0
19	W-2-4	74	74	74	68	36				0
20	F-2-5	78	77	78	72	43				0
21	F-2-6	86	84	83	74	42				0
22	F-2-7	71	72	71	67	41				0
23	F-2-8	81	78	75	72	43				0
24	W-2-DUP	73	76	76	70	40				0
25	W-2	67	70	72	68	30				0
26	W-2MS	59	59	60	56	29				0
27	W-2MSD	76	75	78	71	41				0
28										
29										
30										

		QC LIMITS
S1	= Naphthalene-d8(SS)	(20-130)
S2	= Acenaphthene-d10(SS)	(20-130)
S3	= Phenanthrene-d10(SS)	(20-130)
S4	= Chrysene-d12(SS)	(20-130)
S5	= Perylene-d12(SS)	(20-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix Spike - URSC09 Sample No.: F-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	13	130	8	40	60-140
2-Methylnaphthalene	10	12	120	0	40	60-140
1-Methylnaphthalene	10	12	120	8	40	60-140
Biphenyl	10	12	120	0	40	60-140
2,6 Dimethylnaphthalene	10	9.0	90	1	40	60-140
Acenaphthylene	10	11	110	0	40	60-140
Acenaphthene	10	13	107	0	40	60-140
2,3,5 Trimethylnaphthal	10	11	110	0	40	60-140
Fluorene	10	12	99	0	40	60-140
Dibenzothiophene	10	12	120	9	40	60-140
Phenanthrene	10	18	123	8	40	60-140
Anthracene	10	12	120	9	40	60-140
1-Methylphenanthrene	10	11	110	0	40	60-140
Fluoranthene	10	14	140	7	40	60-140
Pyrene	10	13	130	8	40	60-140
Benzo(a)anthracene	10	12	120	9	40	60-140
Chrysene	10	11	110	0	40	60-140
Benzo(b)fluoranthene	10	14	140	7	40	60-140
Benzo(k)fluoranthene	10	11	110	12	40	60-140
Benzo(e)pyrene	10	11	110	0	40	60-140
Benzo(a)pyrene	10	12	120	9	40	60-140
Perylene	10	10	100	10	40	60-140
Indeno(1,2,3-cd)pyrene	10	10	100	10	40	60-140
Dibenz(a,h)anthracene	10	11	110	9	40	60-140
Benzo(g,h,i)perylene	10	11	110	0	40	60-140

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

RPD: 0 out of 25 outside limits
Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix Spike - URSC09 Sample No.: W-2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	16	50*	0	40	60-140
2-Methylnaphthalene	10	16	74	14	40	60-140
1-Methylnaphthalene	10	14	97	11	40	60-140
Biphenyl	10	12	120	0	40	60-140
2,6 Dimethylnaphthalene	10	11	88	12	40	60-140
Acenaphthylene	10	12	120	9	40	60-140
Acenaphthene	10	20	116	19	40	60-140
2,3,5 Trimethylnaphthal	10	13	130	8	40	60-140
Fluorene	10	17	101	10	40	60-140
Dibenzothiophene	10	13	109	0	40	60-140
Phenanthrene	10	35	120	28	40	60-140
Anthracene	10	13	104	0	40	60-140
1-Methylphenanthrene	10	13	130	8	40	60-140
Fluoranthene	10	20	102	0	40	60-140
Pyrene	10	16	104	10	40	60-140
Benzo(a)anthracene	10	12	120	0	40	60-140
Chrysene	10	11	110	0	40	60-140
Benzo(b)fluoranthene	10	11	110	0	40	60-140
Benzo(k)fluoranthene	10	13	130	8	40	60-140
Benzo(e)pyrene	10	12	120	9	40	60-140
Benzo(a)pyrene	10	12	120	9	40	60-140
Perylene	10	9.9	99	1	40	60-140
Indeno(1,2,3-cd)pyrene	10	11	110	10	40	60-140
Dibenz(a,h)anthracene	10	12	120	9	40	60-140
Benzo(g,h,i)perylene	10	11	110	0	40	60-140

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

RPD: 0 out of 25 outside limits
Spike Recovery: 2 out of 50 outside limits

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix Spike - URSC09 Sample No.: F-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	10	0.0	12	120	60-140
2-Methylnaphthalene	10	0.0	12	120	60-140
1-Methylnaphthalene	10	0.0	13	130	60-140
Biphenyl	10	0.0	12	120	60-140
2,6 Dimethylnaphthalene	10	0.0	9.1	91	60-140
Acenaphthylene	10	0.0	11	110	60-140
Acenaphthene	10	2.3	13	107	60-140
2,3,5 Trimethylnaphthal	10	0.0	11	110	60-140
Fluorene	10	2.1	12	99	60-140
Dibenzothiophene	10	0.0	11	110	60-140
Phenanthrene	10	5.7	17	113	60-140
Anthracene	10	0.0	11	110	60-140
1-Methylphenanthrene	10	0.0	11	110	60-140
Fluoranthene	10	0.0	13	130	60-140
Pyrene	10	0.0	12	120	60-140
Benzo(a)anthracene	10	0.0	11	110	60-140
Chrysene	10	0.0	11	110	60-140
Benzo(b)fluoranthene	10	0.0	13	130	60-140
Benzo(k)fluoranthene	10	0.0	9.8	98	60-140
Benzo(e)pyrene	10	0.0	11	110	60-140
Benzo(a)pyrene	10	0.0	11	110	60-140
Perylene	10	0.0	11	110	60-140
Indeno(1,2,3-cd)pyrene	10	0.0	11	110	60-140
Dibenz(a,h)anthracene	10	0.0	12	120	60-140
Benzo(g,h,i)perylene	10	0.0	11	110	60-140

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

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix Spike - URSCO9 Sample No.: W-2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	10	11	16	50*	60-140
2-Methylnaphthalene	10	8.6	15	64	60-140
1-Methylnaphthalene	10	4.3	13	87	60-140
Biphenyl	10	0.0	12	120	60-140
2,6 Dimethylnaphthalene	10	2.2	10	78	60-140
Acenaphthylene	10	0.0	11	110	60-140
Acenaphthene	10	8.4	18	96	60-140
2,3,5 Trimethylnaphthal	10	0.0	12	120	60-140
Fluorene	10	6.9	16	91	60-140
Dibenzothiophene	10	2.1	13	109	60-140
Phenanthrene	10	23	32	90	60-140
Anthracene	10	2.6	13	104	60-140
1-Methylphenanthrene	10	0.0	12	120	60-140
Fluoranthene	10	9.8	20	102	60-140
Pyrene	10	5.6	15	94	60-140
Benzo(a)anthracene	10	0.0	12	120	60-140
Chrysene	10	0.0	11	110	60-140
Benzo(b)fluoranthene	10	0.0	11	110	60-140
Benzo(k)fluoranthene	10	0.0	12	120	60-140
Benzo(e)pyrene	10	0.0	11	110	60-140
Benzo(a)pyrene	10	0.0	11	110	60-140
Perylene	10	0.0	9.8	98	60-140
Indeno(1,2,3-cd)pyrene	10	0.0	10	100	60-140
Dibenz(a,h)anthracene	10	0.0	11	110	60-140
Benzo(g,h,i)perylene	10	0.0	11	110	60-140

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

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Matrix Spike - STLVT Sample No.: A1LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		11	110	60-140
2-Methylnaphthalene	10		11	110	60-140
1-Methylnaphthalene	10		11	110	60-140
Biphenyl	10		10	100	60-140
2,6 Dimethylnaphthalene	10		10	100	60-140
Acenaphthylene	10		9.7	97	60-140
Acenaphthene	10		9.9	99	60-140
2,3,5 Trimethylnaphthal	10		10	100	60-140
Fluorene	10		10	100	60-140
Dibenzothiophene	10		10	100	60-140
Phenanthrene	10		10	100	60-140
Anthracene	10		9.5	95	60-140
1-Methylphenanthrene	10		9.3	93	60-140
Fluoranthene	10		8.8	88	60-140
Pyrene	10		8.4	84	60-140
Benzo(a)anthracene	10		11	110	60-140
Chrysene	10		10	100	60-140
Benzo(b)fluoranthene	10		8.1	81	60-140
Benzo(k)fluoranthene	10		9.3	93	60-140
Benzo(e)pyrene	10		9.5	95	60-140
Benzo(a)pyrene	10		9.5	95	60-140
Perylene	10		8.9	89	60-140
Indeno(1,2,3-cd)pyrene	10		7.6	76	60-140
Dibenz(a,h)anthracene	10		6.0	60	60-140
Benzo(g,h,i)perylene	10		7.0	70	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 25 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKA1

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID: B0430A1 Lab Sample ID: SBLKA1

Instrument ID: Z Date Extracted: 04/30/04

Matrix: (soil/water) TISSUE Date Analyzed: 05/06/04

Level: (low/med) LOW Time Analyzed: 1517

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EB1	569162	569162	05/06/04
02	A1LCS	A1LCS	Q0430A1	05/06/04
03	W-1-1	569142	569142	05/06/04
04	W-1-2	569143	569143	05/06/04
05	W-1-3	569144	569144	05/06/04
06	F-1-4	569145	569145	05/06/04
07	F-1-5	569146	569146	05/06/04
08	F-1-6	569147	569147	05/06/04
09	F-1-7	569148	569148	05/06/04
10	W-1-8	569149	569149	05/07/04
11	F-1-DUP	569150	569150	05/07/04
12	F-1	569151	569151	05/07/04
13	F-1MS	569151MS	569151M	05/07/04
14	F-1MSD	569151MD	569151S	05/07/04
15	W-2-1	569152	569152	05/07/04
16	W-2-2	569153	569153	05/07/04
17	W-2-3	569154	569154	05/07/04
18	W-2-4	569155	569155	05/11/04
19	F-2-5	569156	569156	05/11/04
20	F-2-6	569157	569157	05/11/04
21	F-2-7	569158	569158	05/11/04
22	F-2-8	569159	569159	05/11/04
23	W-2-DUP	569160	569160	05/11/04
24	W-2	569161	569161	05/11/04
25	W-2MS	569161MS	569161M	05/11/04
26	W-2MSD	569161MD	569161S	05/11/04
27				
28				
29				
30				

COMMENTS:

FORM IV SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID: ZFE59PS DFTPP Injection Date: 04/09/04

Instrument ID: Z DFTPP Injection Time: 1107

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.4
68	Less than 2.0% of mass 69	0.7 (1.4)1
69	Mass 69 relative abundance	51.7
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	59.9
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	26.5
365	Greater than 1.0% of mass 198	3.49
441	Present, but less than mass 443	14.5
442	Greater than 40.0% of mass 198	90.7
443	17.0 - 23.0% of mass 442	17.9 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD1000	SSTD1000	ZFF1000	04/09/04	1315
02	SSTD500	SSTD500	ZFF500	04/09/04	1351
03	SSTD250	SSTD250	ZFF250	04/09/04	1427
04	SSTD100	SSTD100	ZFF100	04/09/04	1502
05	SSTD020	SSTD020	ZFF020	04/09/04	1538
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID: ZFF13PS DFTPP Injection Date: 05/06/04

Instrument ID: Z DFTPP Injection Time: 1117

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.3
68	Less than 2.0% of mass 69	0.7 (1.6)1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	58.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	27.3
365	Greater than 1.0% of mass 198	3.64
441	Present, but less than mass 443	14.3
442	Greater than 40.0% of mass 198	90.5
443	17.0 - 23.0% of mass 442	18.4 (20.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFF250F	05/06/04	1154
02	SBLKA1	SBLKA1	B0430A1	05/06/04	1517
03	EB1	569162	569162	05/06/04	1628
04	A1LCS	A1LCS	Q0430A1	05/06/04	1740
05	W-1-1	569142	569142	05/06/04	1928
06	W-1-2	569143	569143	05/06/04	2004
07	W-1-3	569144	569144	05/06/04	2039
08	F-1-4	569145	569145	05/06/04	2115
09	F-1-5	569146	569146	05/06/04	2151
10	F-1-6	569147	569147	05/06/04	2227
11	F-1-7	569148	569148	05/06/04	2303
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID: ZFF14PS DFTPP Injection Date: 05/07/04

Instrument ID: Z DFTPP Injection Time: 0844

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.8
68	Less than 2.0% of mass 69	0.7 (1.5)1
69	Mass 69 relative abundance	45.5
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	55.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 1.0% of mass 198	3.27
441	Present, but less than mass 443	13.5
442	Greater than 40.0% of mass 198	85.7
443	17.0 - 23.0% of mass 442	18.1 (21.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFF250G2	05/07/04	0937
02	W-1-8	569149	569149	05/07/04	1506
03	F-1-DUP	569150	569150	05/07/04	1542
04	F-1	569151	569151	05/07/04	1618
05	F-1MS	569151MS	569151M	05/07/04	1653
06	F-1MSD	569151MD	569151S	05/07/04	1729
07	W-2-1	569152	569152	05/07/04	1805
08	W-2-2	569153	569153	05/07/04	1841
09	W-2-3	569154	569154	05/07/04	1917
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID: ZFF30PS DFTPP Injection Date: 05/11/04

Instrument ID: Z DFTPP Injection Time: 1132

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.6 (1.4)1
69	Mass 69 relative abundance	44.1
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	55.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	27.5
365	Greater than 1.0% of mass 198	3.57
441	Present, but less than mass 443	15.7
442	Greater than 40.0% of mass 198	99.5
443	17.0 - 23.0% of mass 442	19.8 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFF250I4	05/11/04	1159
02	W-2-4	569155	569155	05/11/04	1312
03	F-2-5	569156	569156	05/11/04	1348
04	F-2-6	569157	569157	05/11/04	1424
05	F-2-7	569158	569158	05/11/04	1500
06	F-2-8	569159	569159	05/11/04	1536
07	W-2-DUP	569160	569160	05/11/04	1612
08	W-2	569161	569161	05/11/04	1648
09	W-2MS	569161MS	569161M	05/11/04	1724
10	W-2MSD	569161MD	569161S	05/11/04	1800
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6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Instrument ID: Z Calibration Date(s): 04/09/04 04/09/04

Calibration Time(s): 1315 1538

LAB FILE ID: RRF40 =ZFF020 RRF200=ZFF100
RRF500=ZFF250 RRF1000=ZFF500 RRF2000=ZFF1000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.114	1.118	1.071	1.101	0.959	1.073	6.2*
2-Methylnaphthalene *	0.680	0.703	0.654	0.653	0.593	0.657	6.3*
1-Methylnaphthalene *	0.646	0.645	0.600	0.601	0.593	0.617	4.2*
Biphenyl *	1.927	1.814	1.521	1.678	1.462	1.680	11.6*
2,6 Dimethylnaphthalene *	1.600	1.695	1.446	1.660	1.141	1.508	15.0*
Acenaphthylene *	2.227	2.070	1.812	1.984	1.886	1.996	8.1*
Acenaphthene *	1.372	1.310	1.150	1.265	1.150	1.249	7.9*
2,3,5 Trimethylnaphthalene *	1.184	1.040	0.930	1.016	0.946	1.023	9.9*
Fluorene *	1.622	1.422	1.280	1.338	1.260	1.384	10.6*
Dibenzothiophene *	1.482	1.306	1.145	1.320	1.054	1.261	13.2*
Phenanthrene *	1.417	1.250	1.158	1.283	1.082	1.238	10.3*
Anthracene *	1.471	1.297	1.183	1.368	1.187	1.301	9.4*
1-Methylphenanthrene *	1.224	1.097	1.016	1.124	0.924	1.077	10.5*
Fluoranthene *	1.442	1.190	1.175	1.212	1.050	1.214	11.7*
Pyrene *	1.531	1.316	1.228	1.240	1.102	1.283	12.4*
Benzo(a)anthracene *	1.614	1.336	1.141	1.188	1.055	1.267	17.3*
Chrysene *	1.784	1.615	1.275	1.393	1.033	1.420	20.6*
Benzo(b)fluoranthene *	1.228	1.122	0.939	1.010	0.860	1.032	14.2*
Benzo(k)fluoranthene *	1.649	1.549	1.230	1.329	1.277	1.407	13.0*
Benzo(e)pyrene *	1.223	0.959	0.826	0.891	0.805	0.941	17.9*
Benzo(a)pyrene *	1.241	0.968	0.814	0.901	0.824	0.950	18.4*
Perylene *	1.457	1.103	0.964	1.061	0.984	1.114	18.0*
Indeno(1,2,3-cd)pyrene *	1.081	0.812	0.669	0.790	0.757	0.822	18.9*
Dibenz(a,h)anthracene *	0.608	0.562	0.491	0.598	0.571	0.566	8.1*
Benzo(g,h,i)perylene *	0.821	0.696	0.602	0.695	0.656	0.694	11.6*
Naphthalene-d8(SS) *	1.941	2.312	2.030	1.978	2.070	2.066	7.1*
Acenaphthene-d10(SS) *	0.844	1.000	0.970	0.848	0.946	0.922	7.8*
Phenanthrene-d10(SS) *	1.156	1.314	1.333	1.049	1.286	1.228	9.9*
Chrysene-d12(SS) *	1.752	1.895	1.929	1.585	1.717	1.776	7.9*
Perylene-d12(SS) *	0.995	0.993	0.974	0.740	0.928	0.926	11.6*

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Instrument ID: Z Calibration Date: 05/06/04 Time: 1154

Lab File ID: ZFF250F Init. Calib. Date(s): 04/09/04 04/09/04

Init. Calib. Times: 1315 1538

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.124	1.084	0.2	3.6	25.0
2-Methylnaphthalene	0.688	0.671	0.2	2.5	25.0
1-Methylnaphthalene	0.647	0.638	0.2	1.4	25.0
Biphenyl	1.680	1.638	0.2	2.5	25.0
2,6 Dimethylnaphthalene	1.508	1.216	0.2	19.4	25.0
Acenaphthylene	1.996	1.935	0.2	3.0	25.0
Acenaphthene	1.249	1.189	0.2	4.8	25.0
2,3,5 Trimethylnaphthalene	1.023	0.948	0.2	7.3	25.0
Fluorene	1.384	1.303	0.2	5.8	25.0
Dibenzothiophene	1.261	1.162	0.2	7.8	25.0
Phenanthrene	1.238	1.103	0.2	10.9	25.0
Anthracene	1.301	1.263	0.2	2.9	25.0
1-Methylphenanthrene	1.077	1.027	0.2	4.6	25.0
Fluoranthene	1.214	1.230	0.2	1.3	25.0
Pyrene	1.283	1.289	0.2	0.5	25.0
Benzo(a)anthracene	1.267	1.201	0.2	5.2	25.0
Chrysene	1.420	1.425	0.2	0.4	25.0
Benzo(b)fluoranthene	1.032	1.023	0.2	0.9	25.0
Benzo(k)fluoranthene	1.407	1.390	0.2	1.2	25.0
Benzo(e)pyrene	0.941	0.947	0.2	0.6	25.0
Benzo(a)pyrene	0.950	0.909	0.2	4.3	25.0
Perylene	1.114	1.170	0.2	5.0	25.0
Indeno(1,2,3-cd)pyrene	0.821	0.807	0.2	1.7	25.0
Dibenz(a,h)anthracene	0.566	0.594	0.2	4.9	25.0
Benzo(g,h,i)perylene	0.694	0.724	0.2	4.3	25.0
Naphthalene-d8(SS)	1.974	1.769	0.2	10.4	25.0
Acenaphthene-d10(SS)	0.922	0.844	0.2	8.4	25.0
Phenanthrene-d10(SS)	1.228	1.236	0.2	0.6	25.0
Chrysene-d12(SS)	1.776	1.684	0.2	5.2	25.0
Perylene-d12(SS)	0.926	0.946	0.2	2.2	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Instrument ID: Z Calibration Date: 05/07/04 Time: 0937

Lab File ID: ZFF250G2 Init. Calib. Date(s): 04/09/04 04/09/04

Init. Calib. Times: 1315 1538

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.124	1.052	0.2	6.4	25.0
2-Methylnaphthalene	0.688	0.655	0.2	4.8	25.0
1-Methylnaphthalene	0.647	0.623	0.2	3.7	25.0
Biphenyl	1.680	1.566	0.2	6.8	25.0
2,6 Dimethylnaphthalene	1.508	1.565	0.2	3.8	25.0
Acenaphthylene	1.996	2.056	0.2	3.0	25.0
Acenaphthene	1.249	1.258	0.2	0.7	25.0
2,3,5 Trimethylnaphthalene	1.023	1.061	0.2	3.7	25.0
Fluorene	1.384	1.418	0.2	2.4	25.0
Dibenzothiophene	1.261	1.109	0.2	12.0	25.0
Phenanthrene	1.238	1.048	0.2	15.3	25.0
Anthracene	1.301	1.292	0.2	0.7	25.0
1-Methylphenanthrene	1.077	1.027	0.2	4.6	25.0
Fluoranthene	1.214	1.234	0.2	1.6	25.0
Pyrene	1.283	1.273	0.2	0.8	25.0
Benzo(a)anthracene	1.267	1.213	0.2	4.3	25.0
Chrysene	1.420	1.388	0.2	2.2	25.0
Benzo(b)fluoranthene	1.032	1.078	0.2	4.4	25.0
Benzo(k)fluoranthene	1.407	1.412	0.2	0.4	25.0
Benzo(e)pyrene	0.941	0.986	0.2	4.8	25.0
Benzo(a)pyrene	0.950	0.970	0.2	2.1	25.0
Perylene	1.114	1.114	0.2	0.0	25.0
Indeno(1,2,3-cd)pyrene	0.821	0.946	0.2	15.2	25.0
Dibenz(a,h)anthracene	0.566	0.672	0.2	18.7	25.0
Benzo(g,h,i)perylene	0.694	0.804	0.2	15.8	25.0
Naphthalene-d8(SS)	1.974	1.718	0.2	13.0	25.0
Acenaphthene-d10(SS)	0.922	0.806	0.2	12.6	25.0
Phenanthrene-d10(SS)	1.228	1.209	0.2	1.5	25.0
Chrysene-d12(SS)	1.776	1.381	0.2	22.2	25.0
Perylene-d12(SS)	0.926	0.834	0.2	9.9	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Instrument ID: Z Calibration Date: 05/11/04 Time: 1159

Lab File ID: ZFF250I4 Init. Calib. Date(s): 04/09/04 04/09/04

Init. Calib. Times: 1315 1538

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.124	1.121	0.2	0.3	25.0
2-Methylnaphthalene	0.688	0.666	0.2	3.2	25.0
1-Methylnaphthalene	0.647	0.680	0.2	5.1	25.0
Biphenyl	1.680	1.548	0.2	7.8	25.0
2,6 Dimethylnaphthalene	1.508	1.301	0.2	13.7	25.0
Acenaphthylene	1.996	1.910	0.2	4.3	25.0
Acenaphthene	1.249	1.133	0.2	9.3	25.0
2,3,5 Trimethylnaphthalene	1.023	0.894	0.2	12.6	25.0
Fluorene	1.384	1.294	0.2	6.5	25.0
Dibenzothiophene	1.261	1.069	0.2	15.2	25.0
Phenanthrene	1.238	0.988	0.2	20.2	25.0
Anthracene	1.301	1.293	0.2	0.6	25.0
1-Methylphenanthrene	1.077	0.988	0.2	8.3	25.0
Fluoranthene	1.214	1.164	0.2	4.1	25.0
Pyrene	1.283	1.200	0.2	6.5	25.0
Benzo(a)anthracene	1.267	1.176	0.2	7.2	25.0
Chrysene	1.420	1.388	0.2	2.2	25.0
Benzo(b)fluoranthene	1.032	1.115	0.2	8.0	25.0
Benzo(k)fluoranthene	1.407	1.378	0.2	2.1	25.0
Benzo(e)pyrene	0.941	0.941	0.2	0.0	25.0
Benzo(a)pyrene	0.950	1.006	0.2	5.9	25.0
Perylene	1.114	1.177	0.2	5.6	25.0
Indeno(1,2,3-cd)pyrene	0.821	0.946	0.2	15.2	25.0
Dibenz(a,h)anthracene	0.566	0.654	0.2	15.5	25.0
Benzo(g,h,i)perylene	0.694	0.794	0.2	14.4	25.0
Naphthalene-d8(SS)	1.974	1.874	0.2	5.1	25.0
Acenaphthene-d10(SS)	0.922	0.959	0.2	4.0	25.0
Phenanthrene-d10(SS)	1.228	1.379	0.2	12.3	25.0
Chrysene-d12(SS)	1.776	1.543	0.2	13.1	25.0
Perylene-d12(SS)	0.926	1.024	0.2	10.6	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250F Date Analyzed: 05/06/04

Instrument ID: Z Time Analyzed: 1154

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	123130	8.11	58725	11.64	46398	12.68
	UPPER LIMIT	246260	8.61	117450	12.14	92796	13.18
	LOWER LIMIT	61565	7.61	29362	11.14	23199	12.18
	STLVT SAMPLE NO.						
01	SBLKA1	96824	8.11	46243	11.64	48993	12.70
02	EB1	103125	8.11	47967	11.64	47942	12.70
03	A1LCS	111710	8.11	55762	11.64	49319	12.68
04	W-1-1	77825	8.11	37949	11.64	47758	12.68
05	W-1-2	87856	8.11	43375	11.63	48793	12.69
06	W-1-3	92326	8.11	47662	11.64	48782	12.68
07	F-1-4	97493	8.11	50598	11.64	56867	12.70
08	F-1-5	87608	8.11	43946	11.63	52955	12.69
09	F-1-6	95224	8.11	50280	11.64	52981	12.70
10	F-1-7	92799	8.11	48177	11.64	44760	12.70
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250F Date Analyzed: 05/06/04

Instrument ID: Z Time Analyzed: 1154

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	85992	14.64	61670	20.06	24407	22.64
	UPPER LIMIT	171984	15.14	123340	20.56	48814	23.14
	LOWER LIMIT	42996	14.14	30835	19.56	12204	22.14
	STLVT SAMPLE NO.						
01	SBLKA1	60039	14.67	24967*	20.08	19340	22.65
02	EB1	68154	14.64	35129	20.08	19715	22.65
03	A1LCS	71515	14.64	36212	20.06	22121	22.64
04	W-1-1	52903	14.64	35174	20.06	30334	22.65
05	W-1-2	59880	14.64	45698	20.06	33645	22.65
06	W-1-3	66442	14.64	46414	20.06	32585	22.65
07	F-1-4	68904	14.64	57484	20.08	41467	22.65
08	F-1-5	62661	14.64	50378	20.08	38589	22.65
09	F-1-6	70559	14.64	54953	20.08	38094	22.65
10	F-1-7	68065	14.64	56011	20.08	33312	22.65
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250F Date Analyzed: 05/06/04

Instrument ID: Z Time Analyzed: 1154

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	34618	22.78				
	UPPER LIMIT	69236	23.28				
	LOWER LIMIT	17309	22.28				
	STLVT SAMPLE NO.						
01	SBLKA1	12753*	22.80				
02	EB1	13605*	22.80				
03	A1LCS	20362	22.78				
04	W-1-1	13568*	22.78				
05	W-1-2	13594*	22.79				
06	W-1-3	15701*	22.80				
07	F-1-4	26943	22.80				
08	F-1-5	21265	22.80				
09	F-1-6	19068	22.80				
10	F-1-7	24076	22.80				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250G2 Date Analyzed: 05/07/04

Instrument ID: Z Time Analyzed: 0937

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	144784	8.11	67878	11.64	56166	12.68
	UPPER LIMIT	289568	8.61	135756	12.14	112332	13.18
	LOWER LIMIT	72392	7.61	33939	11.14	28083	12.18
	STLVT SAMPLE NO.						
01	W-1-8	64606*	8.09	33053*	11.64	54793	12.68
02	F-1-DUP	98332	8.09	48955	11.61	53074	12.68
03	F-1	99350	8.09	49829	11.61	46395	12.68
04	F-1MS	111370	8.09	56214	11.61	55697	12.68
05	F-1MSD	115407	8.09	56079	11.61	48592	12.68
06	W-2-1	95352	8.09	46668	11.61	48018	12.68
07	W-2-2	108930	8.09	53344	11.61	53862	12.68
08	W-2-3	78792	8.09	41584	11.61	53415	12.68
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250G2 Date Analyzed: 05/07/04

Instrument ID: Z Time Analyzed: 0937

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	101859	14.64	74866	20.06	36149	22.64
	UPPER LIMIT	203718	15.14	149732	20.56	72298	23.14
	LOWER LIMIT	50930	14.14	37433	19.56	18074	22.14
	STLVT SAMPLE NO.						
01	W-1-8	47320*	14.62	34177*	20.06	37008	22.64
02	F-1-DUP	74916	14.62	55604	20.06	35053	22.64
03	F-1	75880	14.62	58697	20.06	32614	22.64
04	F-1MS	85905	14.62	66741	20.06	41382	22.64
05	F-1MSD	78223	14.62	65782	20.06	37659	22.64
06	W-2-1	69044	14.62	58425	20.06	35587	22.64
07	W-2-2	81706	14.62	63274	20.06	37572	22.64
08	W-2-3	60418	14.62	44917	20.06	35071	22.64
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250G2 Date Analyzed: 05/07/04

Instrument ID: Z Time Analyzed: 0937

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	45202	22.78				
	UPPER LIMIT	90404	23.28				
	LOWER LIMIT	22601	22.28				
	STLVT SAMPLE NO.						
01	W-1-8	15491*	22.78				
02	F-1-DUP	23723	22.78				
03	F-1	24861	22.78				
04	F-1MS	27548	22.78				
05	F-1MSD	26685	22.78				
06	W-2-1	25489	22.78				
07	W-2-2	21654*	22.78				
08	W-2-3	20548*	22.78				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250I4 Date Analyzed: 05/11/04

Instrument ID: Z Time Analyzed: 1159

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	130108	8.06	66580	11.59	46282	12.62
	UPPER LIMIT	260216	8.56	133160	12.09	92564	13.12
	LOWER LIMIT	65054	7.56	33290	11.09	23141	12.12
	STLVT SAMPLE NO.						
01	W-2-4	99810	8.06	51081	11.59	48166	12.62
02	F-2-5	100394	8.06	50507	11.58	45501	12.62
03	F-2-6	115324	8.06	57967	11.58	47701	12.64
04	F-2-7	97906	8.06	50748	11.58	48967	12.64
05	F-2-8	108795	8.06	53329	11.59	47561	12.62
06	W-2-DUP	111827	8.06	58883	11.58	54130	12.64
07	W-2	97960	8.06	52501	11.58	51731	12.64
08	W-2MS	82989	8.06	42357	11.59	49627	12.62
09	W-2MSD	118988	8.06	59868	11.59	55783	12.62
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22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99866

Lab File ID (Standard): ZFF250I4 Date Analyzed: 05/11/04

Instrument ID: Z Time Analyzed: 1159

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	95748	14.60	68838	20.02	29745	22.59
	UPPER LIMIT	191496	15.10	137676	20.52	59490	23.09
	LOWER LIMIT	47874	14.10	34419	19.52	14872	22.09
	STLVT SAMPLE NO.						
01	W-2-4	73282	14.58	56470	20.02	36060	22.59
02	F-2-5	73510	14.58	58182	20.02	34927	22.59
03	F-2-6	81906	14.59	66814	20.01	38782	22.58
04	F-2-7	71601	14.59	58246	20.01	37314	22.58
05	F-2-8	73703	14.60	55934	20.02	33792	22.59
06	W-2-DUP	84794	14.59	70342	20.01	43243	22.60
07	W-2	77646	14.59	63116	20.01	40368	22.60
08	W-2MS	61245	14.60	49674	20.02	38382	22.59
09	W-2MSD	90377	14.58	71734	20.02	43611	22.59
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKA3

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: SBLKA3

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0501A3

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

F-3MS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569172MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569172MD

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 1.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	100	
91-57-6	2-Methylnaphthalene	72	
90-12-0	1-Methylnaphthalene	110	
92-52-4	Biphenyl	19	
581-42-0	2,6 Dimethylnaphthalene	40	
208-96-8	Acenaphthylene	13	
83-32-9	Acenaphthene	99	
2245-38-7	2,3,5 Trimethylnaphthalene	21	
86-73-7	Fluorene	40	
132-65-0	Dibenzothiophene	15	
85-01-8	Phenanthrene	45	
120-12-7	Anthracene	22	
832-69-9	1-Methylphenanthrene	16	
206-44-0	Fluoranthene	24	
129-00-0	Pyrene	24	
56-55-3	Benzo(a)anthracene	13	
218-01-9	Chrysene	12	
205-99-2	Benzo(b)fluoranthene	15	
207-08-9	Benzo(k)fluoranthene	9.7	
192-97-2	Benzo(e)pyrene	11	
50-32-8	Benzo(a)pyrene	13	
198-55-0	Perylene	9.9	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenz(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	9.3	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

F-3MSD

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569172MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569172SD

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/19/04

Injection Volume: 2.0(uL) Dilution Factor: 1.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	110	
91-57-6	2-Methylnaphthalene	73	
90-12-0	1-Methylnaphthalene	110	
92-52-4	Biphenyl	20	
581-42-0	2,6 Dimethylnaphthalene	43	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	100	
2245-38-7	2,3,5 Trimethylnaphthalene	18	
86-73-7	Fluorene	40	
132-65-0	Dibenzothiophene	16	
85-01-8	Phenanthrene	50	
120-12-7	Anthracene	22	
832-69-9	1-Methylphenanthrene	15	
206-44-0	Fluoranthene	20	
129-00-0	Pyrene	20	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	14	
207-08-9	Benzo(k)fluoranthene	13	
192-97-2	Benzo(e)pyrene	13	
50-32-8	Benzo(a)pyrene	13	
198-55-0	Perylene	12	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenz(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	12	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3MS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569182MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569182MD

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 3.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	280	
91-57-6	2-Methylnaphthalene	180	
90-12-0	1-Methylnaphthalene	260	
92-52-4	Biphenyl	32	
581-42-0	2,6 Dimethylnaphthalene	90	
208-96-8	Acenaphthylene	17	
83-32-9	Acenaphthene	240	
2245-38-7	2,3,5 Trimethylnaphthalene	36	
86-73-7	Fluorene	78	
132-65-0	Dibenzothiophene	21	
85-01-8	Phenanthrene	100	
120-12-7	Anthracene	38	
832-69-9	1-Methylphenanthrene	27	
206-44-0	Fluoranthene	43	
129-00-0	Pyrene	49	
56-55-3	Benzo(a)anthracene	19	
218-01-9	Chrysene	18	
205-99-2	Benzo(b)fluoranthene	20	
207-08-9	Benzo(k)fluoranthene	16	
192-97-2	Benzo(e)pyrene	15	
50-32-8	Benzo(a)pyrene	22	
198-55-0	Perylene	12	
193-39-5	Indeno(1,2,3-cd)pyrene	14	
53-70-3	Dibenz(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	13	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

W-3MSD

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: 569182MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 569182SD

Level: (low/med) LOW Date Received: 04/24/04

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/04

Injection Volume: 2.0(uL) Dilution Factor: 3.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	240	
91-57-6	2-Methylnaphthalene	150	
90-12-0	1-Methylnaphthalene	260	
92-52-4	Biphenyl	35	
581-42-0	2,6 Dimethylnaphthalene	38	
208-96-8	Acenaphthylene	15	
83-32-9	Acenaphthene	190	
2245-38-7	2,3,5 Trimethylnaphthalene	25	
86-73-7	Fluorene	98	
132-65-0	Dibenzothiophene	19	
85-01-8	Phenanthrene	100	
120-12-7	Anthracene	39	
832-69-9	1-Methylphenanthrene	29	
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	50	
56-55-3	Benzo(a)anthracene	16	
218-01-9	Chrysene	15	
205-99-2	Benzo(b)fluoranthene	16	
207-08-9	Benzo(k)fluoranthene	13	
192-97-2	Benzo(e)pyrene	12	
50-32-8	Benzo(a)pyrene	17	
198-55-0	Perylene	10	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenz(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	12	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

A3LCS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix: (soil/water) TISSUE Lab Sample ID: A3LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0501A3

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/01/04

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	10	
90-12-0	1-Methylnaphthalene	11	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	8.9	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	10	
2245-38-7	2,3,5 Trimethylnaphthalene	10	
86-73-7	Fluorene	12	
132-65-0	Dibenzothiophene	9.9	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	10	
832-69-9	1-Methylphenanthrene	10	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	8.9	
207-08-9	Benzo(k)fluoranthene	10	
192-97-2	Benzo(e)pyrene	10	
50-32-8	Benzo(a)pyrene	9.7	
198-55-0	Perylene	8.9	
193-39-5	Indeno(1,2,3-cd)pyrene	9.0	
53-70-3	Dibenz(a,h)anthracene	8.3	
191-24-2	Benzo(g,h,i)perylene	8.7	

FORM 2
TISSUE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Level: (low/med) LOW

	STLVT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLKA3	86	85	77	85	43				0
02	EB2	95	93	81	84	78				0
03	A3LCS	48	57	60	62	61				0
04	F-3-2	49	50	52	50	41				0
05	F-3-3	67	70	73	67	56				0
06	F-3-6	72	73	76	69	58				0
07	F-3-7	67	67	68	61	52				0
08	F-3-DUP1	46	55	57	66	62				0
09	W-3-DUP2	56	58	69	67	56				0
10	F-3-1	70	74	73	68	78				0
11	F-3-4	74	78	75	66	82				0
12	F-3-5	86	92	84	82	88				0
13	F-3-8	76	83	87	78	78				0
14	W-3-9	69	79	81	60	74				0
15	W-3-10	65	73	78	63	52				0
16	W-3-12	64	74	80	62	69				0
17	W-3-13	59	67	75	59	62				0
18	W-3-14	73	85	90	74	74				0
19	W-3-15	67	77	84	64	59				0
20	W-3-16	68	77	83	63	60				0
21	W-3	70	81	83	66	63				0
22	W-3MS	62	70	73	59	56				0
23	W-3MSD	25	54	66	55	53				0
24	F-3	71	81	87	69	66				0
25	F-3MS	66	75	81	65	63				0
26	F-3MSD	63	65	60	56	52				0
27	W-3-11	70	74	72	63	68				0
28										
29										
30										

		QC LIMITS
S1	= Naphthalene-d8 (SS)	(20-130)
S2	= Acenaphthene-d10 (SS)	(20-130)
S3	= Phenanthrene-d10 (SS)	(20-130)
S4	= Chrysene-d12 (SS)	(20-130)
S5	= Perylene-d12 (SS)	(20-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix Spike - URSC09 Sample No.: F-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	10	98	100	20*	60-140
2-Methylnaphthalene	10	62	72	100	60-140
1-Methylnaphthalene	10	100	110	100	60-140
Biphenyl	10	8.8	19	102	60-140
2,6 Dimethylnaphthalene	10	31	40	90	60-140
Acenaphthylene	10	2.2	13	108	60-140
Acenaphthene	10	92	99	70	60-140
2,3,5 Trimethylnaphthal	10	9.3	21	117	60-140
Fluorene	10	28	40	120	60-140
Dibenzothiophene	10	4.5	15	105	60-140
Phenanthrene	10	36	45	90	60-140
Anthracene	10	9.6	22	124	60-140
1-Methylphenanthrene	10	6.0	16	100	60-140
Fluoranthene	10	11	24	130	60-140
Pyrene	10	12	24	120	60-140
Benzo(a)anthracene	10	0.0	13	130	60-140
Chrysene	10	0.0	12	120	60-140
Benzo(b)fluoranthene	10	0.0	15	150*	60-140
Benzo(k)fluoranthene	10	0.0	9.7	97	60-140
Benzo(e)pyrene	10	0.0	11	110	60-140
Benzo(a)pyrene	10	0.0	13	130	60-140
Perylene	10	0.0	9.9	99	60-140
Indeno(1,2,3-cd)pyrene	10	0.0	11	110	60-140
Dibenz(a,h)anthracene	10	0.0	11	110	60-140
Benzo(g,h,i)perylene	10	0.0	9.3	93	60-140

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

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix Spike - URSC09 Sample No.: F-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	110	120	143*	40	60-140
2-Methylnaphthalene	10	73	110	10	40	60-140
1-Methylnaphthalene	10	110	100	0	40	60-140
Biphenyl	10	20	112	9	40	60-140
2,6 Dimethylnaphthalene	10	43	120	28	40	60-140
Acenaphthylene	10	12	98	10	40	60-140
Acenaphthene	10	100	80	13	40	60-140
2,3,5 Trimethylnaphthal	10	18	87	29	40	60-140
Fluorene	10	40	120	0	40	60-140
Dibenzothiophene	10	16	115	9	40	60-140
Phenanthrene	10	50	140	43*	40	60-140
Anthracene	10	22	124	0	40	60-140
1-Methylphenanthrene	10	15	90	10	40	60-140
Fluoranthene	10	20	90	36	40	60-140
Pyrene	10	20	80	40	40	60-140
Benzo(a)anthracene	10	11	110	17	40	60-140
Chrysene	10	13	130	8	40	60-140
Benzo(b)fluoranthene	10	14	140	7	40	60-140
Benzo(k)fluoranthene	10	13	130	29	40	60-140
Benzo(e)pyrene	10	13	130	17	40	60-140
Benzo(a)pyrene	10	13	130	0	40	60-140
Perylene	10	12	120	19	40	60-140
Indeno(1,2,3-cd)pyrene	10	11	110	0	40	60-140
Dibenz(a,h)anthracene	10	12	120	9	40	60-140
Benzo(g,h,i)perylene	10	12	120	25	40	60-140

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

RPD: 2 out of 25 outside limits
Spike Recovery: 2 out of 50 outside limits

COMMENTS:

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix Spike - URSCO9 Sample No.: W-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	10	280	280	0*	60-140
2-Methylnaphthalene	10	170	180	100	60-140
1-Methylnaphthalene	10	270	260	-100*	60-140
Biphenyl	10	24	32	80	60-140
2,6 Dimethylnaphthalene	10	86	90	40*	60-140
Acenaphthylene	10	6.4	17	106	60-140
Acenaphthene	10	240	240	0*	60-140
2,3,5 Trimethylnaphthal	10	26	36	100	60-140
Fluorene	10	73	78	50*	60-140
Dibenzothiophene	10	11	21	100	60-140
Phenanthrene	10	94	100	60	60-140
Anthracene	10	28	38	100	60-140
1-Methylphenanthrene	10	18	27	90	60-140
Fluoranthene	10	32	43	110	60-140
Pyrene	10	37	49	120	60-140
Benzo(a)anthracene	10	5.6	19	134	60-140
Chrysene	10	6.3	18	117	60-140
Benzo(b)fluoranthene	10	3.8	20	162*	60-140
Benzo(k)fluoranthene	10	3.3	16	127	60-140
Benzo(e)pyrene	10	3.4	15	116	60-140
Benzo(a)pyrene	10	5.5	22	165*	60-140
Perylene	10	0.0	12	120	60-140
Indeno(1,2,3-cd)pyrene	10	0.0	14	140	60-140
Dibenz(a,h)anthracene	10	0.0	11	110	60-140
Benzo(g,h,i)perylene	10	0.0	13	130	60-140

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

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix Spike - URSCO9 Sample No.: W-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	240	-400*	-200	40	60-140
2-Methylnaphthalene	10	150	-200*	-600	40	60-140
1-Methylnaphthalene	10	260	-100*	0	40	60-140
Biphenyl	10	35	110	32	40	60-140
2,6 Dimethylnaphthalene	10	38	-480*	-236	40	60-140
Acenaphthylene	10	15	86	21	40	60-140
Acenaphthene	10	190	-500*	-200	40	60-140
2,3,5 Trimethylnaphthal	10	25	-10*	244*	40	60-140
Fluorene	10	98	250*	133*	40	60-140
Dibenzothiophene	10	19	80	22	40	60-140
Phenanthrene	10	100	60	0	40	60-140
Anthracene	10	39	110	10	40	60-140
1-Methylphenanthrene	10	29	110	20	40	60-140
Fluoranthene	10	44	120	9	40	60-140
Pyrene	10	50	130	8	40	60-140
Benzo(a)anthracene	10	16	104	25	40	60-140
Chrysene	10	15	87	29	40	60-140
Benzo(b)fluoranthene	10	16	122	28	40	60-140
Benzo(k)fluoranthene	10	13	97	27	40	60-140
Benzo(e)pyrene	10	12	86	30	40	60-140
Benzo(a)pyrene	10	17	115	36	40	60-140
Perylene	10	10	100	18	40	60-140
Indeno(1,2,3-cd)pyrene	10	11	110	24	40	60-140
Dibenz(a,h)anthracene	10	12	120	9	40	60-140
Benzo(g,h,i)perylene	10	12	120	8	40	60-140

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

RPD: 2 out of 25 outside limits
Spike Recovery: 14 out of 50 outside limits

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Matrix Spike - STLVT Sample No.: A3LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		10	100	60-140
2-Methylnaphthalene	10		10	100	60-140
1-Methylnaphthalene	10		11	110	60-140
Biphenyl	10		12	120	60-140
2,6 Dimethylnaphthalene	10		8.9	89	60-140
Acenaphthylene	10		11	110	60-140
Acenaphthene	10		10	100	60-140
2,3,5 Trimethylnaphthal	10		10	100	60-140
Fluorene	10		12	120	60-140
Dibenzothiophene	10		9.9	99	60-140
Phenanthrene	10		11	110	60-140
Anthracene	10		10	100	60-140
1-Methylphenanthrene	10		10	100	60-140
Fluoranthene	10		10	100	60-140
Pyrene	10		10	100	60-140
Benzo(a)anthracene	10		11	110	60-140
Chrysene	10		11	110	60-140
Benzo(b)fluoranthene	10		8.9	89	60-140
Benzo(k)fluoranthene	10		10	100	60-140
Benzo(e)pyrene	10		10	100	60-140
Benzo(a)pyrene	10		9.7	97	60-140
Perylene	10		8.9	89	60-140
Indeno(1,2,3-cd)pyrene	10		9.0	90	60-140
Dibenz(a,h)anthracene	10		8.3	83	60-140
Benzo(g,h,i)perylene	10		8.7	87	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 25 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKA3

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: B0501A3 Lab Sample ID: SBLKA3

Instrument ID: Z Date Extracted: 05/01/04

Matrix: (soil/water) TISSUE Date Analyzed: 05/06/04

Level:(low/med) LOW Time Analyzed: 1553

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EB2	569183	569183	05/06/04
02	A3LCS	A3LCS	Q0501A3	05/06/04
03	F-3-2	569164	569164	05/11/04
04	F-3-3	569165	569165	05/11/04
05	F-3-6	569168	569168	05/11/04
06	F-3-7	569169	569169	05/11/04
07	F-3-DUP1	569171	569171	05/13/04
08	W-3-DUP2	569181	569181	05/14/04
09	F-3-1	569163	569163D	05/18/04
10	F-3-4	569166	569166D	05/18/04
11	F-3-5	569167	569167D	05/18/04
12	F-3-8	569170	569170D	05/18/04
13	W-3-9	569173	569173D	05/18/04
14	W-3-10	569174	569174	05/18/04
15	W-3-12	569176	569176D	05/18/04
16	W-3-13	569177	569177D	05/18/04
17	W-3-14	569178	569178D	05/18/04
18	W-3-15	569179	569179	05/18/04
19	W-3-16	569180	569180D	05/18/04
20	W-3	569182	569182D	05/18/04
21	W-3MS	569182MS	569182MD	05/18/04
22	W-3MSD	569182MD	569182SD	05/18/04
23	F-3	569172	569172D	05/18/04
24	F-3MS	569172MS	569172MD	05/18/04
25	F-3MSD	569172MD	569172SD	05/19/04
26	W-3-11	569175	569175D	05/19/04
27				
28				
29				
30				

COMMENTS:

FORM IV SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: ZFE59PS DFTPP Injection Date: 04/09/04

Instrument ID: Z DFTPP Injection Time: 1107

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.4
68	Less than 2.0% of mass 69	0.7 (1.4)1
69	Mass 69 relative abundance	51.7
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	59.9
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	26.5
365	Greater than 1.0% of mass 198	3.49
441	Present, but less than mass 443	14.5
442	Greater than 40.0% of mass 198	90.7
443	17.0 - 23.0% of mass 442	17.9 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD1000	SSTD1000	ZFF1000	04/09/04	1315
02	SSTD500	SSTD500	ZFF500	04/09/04	1351
03	SSTD250	SSTD250	ZFF250	04/09/04	1427
04	SSTD100	SSTD100	ZFF100	04/09/04	1502
05	SSTD020	SSTD020	ZFF020	04/09/04	1538
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: ZFF13PS DFTPP Injection Date: 05/06/04

Instrument ID: Z DFTPP Injection Time: 1117

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.3
68	Less than 2.0% of mass 69	0.7 (1.6)1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	58.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	27.3
365	Greater than 1.0% of mass 198	3.64
441	Present, but less than mass 443	14.3
442	Greater than 40.0% of mass 198	90.5
443	17.0 - 23.0% of mass 442	18.4 (20.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFF250F	05/06/04	1154
02	SBLKA3	SBLKA3	B0501A3	05/06/04	1553
03	EB2	569183	569183	05/06/04	1704
04	A3LCS	A3LCS	Q0501A3	05/06/04	1816
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: ZFF30PS DFTPP Injection Date: 05/11/04

Instrument ID: Z DFTPP Injection Time: 1132

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.6 (1.4)1
69	Mass 69 relative abundance	44.1
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	55.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	27.5
365	Greater than 1.0% of mass 198	3.57
441	Present, but less than mass 443	15.7
442	Greater than 40.0% of mass 198	99.5
443	17.0 - 23.0% of mass 442	19.8 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFF250I4	05/11/04	1159
02	F-3-2	569164	569164	05/11/04	1917
03	F-3-3	569165	569165	05/11/04	1953
04	F-3-6	569168	569168	05/11/04	2140
05	F-3-7	569169	569169	05/11/04	2217
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: ZFF37PS DFTPP Injection Date: 05/13/04

Instrument ID: Z DFTPP Injection Time: 1236

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.4 (0.9)1
69	Mass 69 relative abundance	40.2
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	53.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	28.2
365	Greater than 1.0% of mass 198	3.33
441	Present, but less than mass 443	14.9
442	Greater than 40.0% of mass 198	93.3
443	17.0 - 23.0% of mass 442	19.7 (21.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD1000	SSTD1000	ZFG1000	05/13/04	1603
02	SSTD500	SSTD500	ZFG500	05/13/04	1639
03	SSTD250	SSTD250	ZFG250	05/13/04	1715
04	SSTD100	SSTD100	ZFG100	05/13/04	1751
05	SSTD020	SSTD020	ZFG020	05/13/04	1826
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: ZFG02PS DFTPP Injection Date: 05/13/04

Instrument ID: Z DFTPP Injection Time: 1921

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.8
68	Less than 2.0% of mass 69	0.3 (0.8)1
69	Mass 69 relative abundance	38.7
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	53.0
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	29.9
365	Greater than 1.0% of mass 198	3.67
441	Present, but less than mass 443	15.5
442	Greater than 40.0% of mass 198	96.8
443	17.0 - 23.0% of mass 442	20.4 (21.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFG250A	05/13/04	1936
02	F-3-DUP1	569171	569171	05/13/04	2124
03	W-3-DUP2	569181	569181	05/14/04	0322
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: ZFG15PS DFTPP Injection Date: 05/18/04

Instrument ID: Z DFTPP Injection Time: 1103

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.7 (1.8)1
69	Mass 69 relative abundance	39.4
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	55.3
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	29.5
365	Greater than 1.0% of mass 198	4.20
441	Present, but less than mass 443	15.2
442	Greater than 40.0% of mass 198	93.0
443	17.0 - 23.0% of mass 442	19.2 (20.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFG250F	05/18/04	1119
02	F-3-1	569163	569163D	05/18/04	1157
03	F-3-4	569166	569166D	05/18/04	1233
04	F-3-5	569167	569167D	05/18/04	1309
05	F-3-8	569170	569170D	05/18/04	1344
06	W-3-9	569173	569173D	05/18/04	1456
07	W-3-10	569174	569174	05/18/04	1532
08	W-3-12	569176	569176D	05/18/04	1705
09	W-3-13	569177	569177D	05/18/04	1741
10	W-3-14	569178	569178D	05/18/04	1817
11	W-3-15	569179	569179	05/18/04	1853
12	W-3-16	569180	569180D	05/18/04	1929
13	W-3	569182	569182D	05/18/04	2005
14	W-3MS	569182MS	569182MD	05/18/04	2041
15	W-3MSD	569182MD	569182SD	05/18/04	2117
16	F-3	569172	569172D	05/18/04	2152
17	F-3MS	569172MS	569172MD	05/18/04	2228
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID: ZFG19PS DFTPP Injection Date: 05/19/04

Instrument ID: Z DFTPP Injection Time: 0937

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.0
68	Less than 2.0% of mass 69	0.7 (1.9)1
69	Mass 69 relative abundance	38.5
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	53.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	28.8
365	Greater than 1.0% of mass 198	4.03
441	Present, but less than mass 443	15.5
442	Greater than 40.0% of mass 198	93.6
443	17.0 - 23.0% of mass 442	19.7 (21.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD250	SSTD250	ZFG250G4	05/19/04	1228
02	F-3MSD	569172MD	569172SD	05/19/04	1304
03	W-3-11	569175	569175D	05/19/04	1340
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6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Instrument ID: Z Calibration Date(s): 04/09/04 04/09/04

Calibration Time(s): 1315 1538

LAB FILE ID: RRF40 =ZFF020 RRF200=ZFF100
RRF500=ZFF250 RRF1000=ZFF500 RRF2000=ZFF1000

COMPOUND		RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene	*	1.114	1.118	1.071	1.101	0.959	1.073	6.2*
2-Methylnaphthalene	*	0.680	0.703	0.654	0.653	0.593	0.657	6.3*
1-Methylnaphthalene	*	0.646	0.645	0.600	0.601	0.593	0.617	4.2*
Biphenyl	*	1.927	1.814	1.521	1.678	1.462	1.680	11.6*
2,6 Dimethylnaphthalene	*	1.600	1.695	1.446	1.660	1.141	1.508	15.0*
Acenaphthylene	*	2.227	2.070	1.812	1.984	1.886	1.996	8.1*
Acenaphthene	*	1.372	1.310	1.150	1.265	1.150	1.249	7.9*
2,3,5 Trimethylnaphthalene	*	1.184	1.040	0.930	1.016	0.946	1.023	9.9*
Fluorene	*	1.622	1.422	1.280	1.338	1.260	1.384	10.6*
Dibenzothiophene	*	1.482	1.306	1.145	1.320	1.054	1.261	13.2*
Phenanthrene	*	1.417	1.250	1.158	1.283	1.082	1.238	10.3*
Anthracene	*	1.471	1.297	1.183	1.368	1.187	1.301	9.4*
1-Methylphenanthrene	*	1.224	1.097	1.016	1.124	0.924	1.077	10.5*
Fluoranthene	*	1.442	1.190	1.175	1.212	1.050	1.214	11.7*
Pyrene	*	1.531	1.316	1.228	1.240	1.102	1.283	12.4*
Benzo(a)anthracene	*	1.614	1.336	1.141	1.188	1.055	1.267	17.3*
Chrysene	*	1.784	1.615	1.275	1.393	1.033	1.420	20.6*
Benzo(b)fluoranthene	*	1.228	1.122	0.939	1.010	0.860	1.032	14.2*
Benzo(k)fluoranthene	*	1.649	1.549	1.230	1.329	1.277	1.407	13.0*
Benzo(e)pyrene	*	1.223	0.959	0.826	0.891	0.805	0.941	17.9*
Benzo(a)pyrene	*	1.241	0.968	0.814	0.901	0.824	0.950	18.4*
Perylene	*	1.457	1.103	0.964	1.061	0.984	1.114	18.0*
Indeno(1,2,3-cd)pyrene	*	1.081	0.812	0.669	0.790	0.757	0.822	18.9*
Dibenz(a,h)anthracene	*	0.608	0.562	0.491	0.598	0.571	0.566	8.1*
Benzo(g,h,i)perylene	*	0.821	0.696	0.602	0.695	0.656	0.694	11.6*
Naphthalene-d8(SS)	*	1.941	2.312	2.030	1.978	2.070	2.066	7.1*
Acenaphthene-d10(SS)	*	0.844	1.000	0.970	0.848	0.946	0.922	7.8*
Phenanthrene-d10(SS)	*	1.156	1.314	1.333	1.049	1.286	1.228	9.9*
Chrysene-d12(SS)	*	1.752	1.895	1.929	1.585	1.717	1.776	7.9*
Perylene-d12(SS)	*	0.995	0.993	0.974	0.740	0.928	0.926	11.6*

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

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Instrument ID: Z Calibration Date(s): 05/13/04 05/13/04

Calibration Time(s): 1603 1826

LAB FILE ID: RRF40 =ZFG020 RRF200=ZFG100
RRF500=ZFG250 RRF1000=ZFG500 RRF2000=ZFG1000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.185	1.171	1.131	1.095	1.069	1.130	4.3*
2-Methylnaphthalene *	0.623	0.619	0.619	0.626	0.615	0.620	0.7*
1-Methylnaphthalene *	0.658	0.709	0.705	0.687	0.661	0.684	3.5*
Biphenyl *	1.368	1.351	1.559	1.420	1.445	1.429	5.8*
2,6 Dimethylnaphthalene *	1.146	1.181	1.050	1.086	1.109	1.114	4.6*
Acenaphthylene *	2.048	1.931	2.005	1.956	2.007	1.989	2.3*
Acenaphthene *	1.225	1.307	1.280	1.201	1.225	1.248	3.5*
2,3,5 Trimethylnaphthalene *	0.932	0.839	0.906	0.884	0.925	0.897	4.2*
Fluorene *	1.388	1.325	1.114	1.084	1.152	1.213	11.2*
Dibenzothiophene *	1.299	1.077	1.069	1.062	1.126	1.127	8.8*
Phenanthrene *	0.992	0.937	0.939	0.977	1.032	0.975	4.0*
Anthracene *	1.664	1.469	1.406	1.328	1.366	1.447	9.1*
1-Methylphenanthrene *	1.168	1.018	0.991	0.966	1.036	1.036	7.6*
Fluoranthene *	1.244	1.025	1.049	1.054	1.123	1.099	8.1*
Pyrene *	1.304	1.028	1.058	1.080	1.136	1.121	9.8*
Benzo(a)anthracene *	1.188	1.001	1.221	1.179	1.138	1.145	7.5*
Chrysene *	1.928	1.844	2.066	1.719	1.631	1.838	9.3*
Benzo(b)fluoranthene *	0.893	0.788	0.956	0.974	0.870	0.896	8.3*
Benzo(k)fluoranthene *	2.332	1.905	1.962	1.772	1.720	1.938	12.4*
Benzo(e)pyrene *	1.153	0.923	1.067	1.046	0.946	1.027	9.1*
Benzo(a)pyrene *	1.294	1.007	1.126	1.091	0.985	1.101	11.2*
Perylene *	1.752	1.265	1.514	1.357	1.255	1.429	14.6*
Indeno(1,2,3-cd)pyrene *	1.036	0.843	0.988	1.024	0.925	0.963	8.3*
Dibenz(a,h)anthracene *	0.741	0.663	0.774	0.781	0.660	0.724	8.1*
Benzo(g,h,i)perylene *	0.861	0.749	0.860	0.918	0.807	0.839	7.6*
Naphthalene-d8(SS) *	2.803	2.621	2.267	2.338	2.237	2.453	10.1*
Acenaphthene-d10(SS) *	1.352	1.253	1.053	1.106	1.042	1.161	11.7*
Phenanthrene-d10(SS) *	1.672	1.637	1.509	1.610	1.458	1.577	5.7*
Chrysene-d12(SS) *	2.508	2.029	1.540	1.493	1.504	1.815	24.7*
Perylene-d12(SS) *	1.433	1.203	1.064	1.031	0.954	1.137	16.6*

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Instrument ID: Z Calibration Date: 05/06/04 Time: 1154

Lab File ID: ZFF250F Init. Calib. Date(s): 04/09/04 04/09/04

Init. Calib. Times: 1315 1538

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.124	1.084	0.2	3.6	25.0
2-Methylnaphthalene	0.688	0.671	0.2	2.5	25.0
1-Methylnaphthalene	0.647	0.638	0.2	1.4	25.0
Biphenyl	1.680	1.638	0.2	2.5	25.0
2,6 Dimethylnaphthalene	1.508	1.216	0.2	19.4	25.0
Acenaphthylene	1.996	1.935	0.2	3.0	25.0
Acenaphthene	1.249	1.189	0.2	4.8	25.0
2,3,5 Trimethylnaphthalene	1.023	0.948	0.2	7.3	25.0
Fluorene	1.384	1.303	0.2	5.8	25.0
Dibenzothiophene	1.261	1.162	0.2	7.8	25.0
Phenanthrene	1.238	1.103	0.2	10.9	25.0
Anthracene	1.301	1.263	0.2	2.9	25.0
1-Methylphenanthrene	1.077	1.027	0.2	4.6	25.0
Fluoranthene	1.214	1.230	0.2	1.3	25.0
Pyrene	1.283	1.289	0.2	0.5	25.0
Benzo(a)anthracene	1.267	1.201	0.2	5.2	25.0
Chrysene	1.420	1.425	0.2	0.4	25.0
Benzo(b)fluoranthene	1.032	1.023	0.2	0.9	25.0
Benzo(k)fluoranthene	1.407	1.390	0.2	1.2	25.0
Benzo(e)pyrene	0.941	0.947	0.2	0.6	25.0
Benzo(a)pyrene	0.950	0.909	0.2	4.3	25.0
Perylene	1.114	1.170	0.2	5.0	25.0
Indeno(1,2,3-cd)pyrene	0.821	0.807	0.2	1.7	25.0
Dibenz(a,h)anthracene	0.566	0.594	0.2	4.9	25.0
Benzo(g,h,i)perylene	0.694	0.724	0.2	4.3	25.0
Naphthalene-d8(SS)	1.974	1.769	0.2	10.4	25.0
Acenaphthene-d10(SS)	0.922	0.844	0.2	8.4	25.0
Phenanthrene-d10(SS)	1.228	1.236	0.2	0.6	25.0
Chrysene-d12(SS)	1.776	1.684	0.2	5.2	25.0
Perylene-d12(SS)	0.926	0.946	0.2	2.2	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Instrument ID: Z Calibration Date: 05/11/04 Time: 1159

Lab File ID: ZFF250I4 Init. Calib. Date(s): 04/09/04 04/09/04

Init. Calib. Times: 1315 1538

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.124	1.121	0.2	0.3	25.0
2-Methylnaphthalene	0.688	0.666	0.2	3.2	25.0
1-Methylnaphthalene	0.647	0.680	0.2	5.1	25.0
Biphenyl	1.680	1.548	0.2	7.8	25.0
2,6 Dimethylnaphthalene	1.508	1.301	0.2	13.7	25.0
Acenaphthylene	1.996	1.910	0.2	4.3	25.0
Acenaphthene	1.249	1.133	0.2	9.3	25.0
2,3,5 Trimethylnaphthalene	1.023	0.894	0.2	12.6	25.0
Fluorene	1.384	1.294	0.2	6.5	25.0
Dibenzothiophene	1.261	1.069	0.2	15.2	25.0
Phenanthrene	1.238	0.988	0.2	20.2	25.0
Anthracene	1.301	1.293	0.2	0.6	25.0
1-Methylphenanthrene	1.077	0.988	0.2	8.3	25.0
Fluoranthene	1.214	1.164	0.2	4.1	25.0
Pyrene	1.283	1.200	0.2	6.5	25.0
Benzo(a)anthracene	1.267	1.176	0.2	7.2	25.0
Chrysene	1.420	1.388	0.2	2.2	25.0
Benzo(b)fluoranthene	1.032	1.115	0.2	8.0	25.0
Benzo(k)fluoranthene	1.407	1.378	0.2	2.1	25.0
Benzo(e)pyrene	0.941	0.941	0.2	0.0	25.0
Benzo(a)pyrene	0.950	1.006	0.2	5.9	25.0
Perylene	1.114	1.177	0.2	5.6	25.0
Indeno(1,2,3-cd)pyrene	0.821	0.946	0.2	15.2	25.0
Dibenz(a,h)anthracene	0.566	0.654	0.2	15.5	25.0
Benzo(g,h,i)perylene	0.694	0.794	0.2	14.4	25.0
Naphthalene-d8(SS)	1.974	1.874	0.2	5.1	25.0
Acenaphthene-d10(SS)	0.922	0.959	0.2	4.0	25.0
Phenanthrene-d10(SS)	1.228	1.379	0.2	12.3	25.0
Chrysene-d12(SS)	1.776	1.543	0.2	13.1	25.0
Perylene-d12(SS)	0.926	1.024	0.2	10.6	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Instrument ID: Z Calibration Date: 05/13/04 Time: 1936

Lab File ID: ZFG250A Init. Calib. Date(s): 05/13/04 05/13/04

Init. Calib. Times: 1603 1826

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.130	1.122	0.2	0.7	25.0
2-Methylnaphthalene	0.620	0.621	0.2	0.2	25.0
1-Methylnaphthalene	0.684	0.753	0.2	10.1	25.0
Biphenyl	1.429	1.538	0.2	7.6	25.0
2,6 Dimethylnaphthalene	1.114	1.038	0.2	6.8	25.0
Acenaphthylene	1.989	1.939	0.2	2.5	25.0
Acenaphthene	1.248	1.243	0.2	0.4	25.0
2,3,5 Trimethylnaphthalene	0.897	0.858	0.2	4.3	25.0
Fluorene	1.213	1.089	0.2	10.2	25.0
Dibenzothiophene	1.127	1.070	0.2	5.0	25.0
Phenanthrene	0.975	0.960	0.2	1.5	25.0
Anthracene	1.447	1.367	0.2	5.5	25.0
1-Methylphenanthrene	1.036	0.959	0.2	7.4	25.0
Fluoranthene	1.099	1.047	0.2	4.7	25.0
Pyrene	1.121	1.056	0.2	5.8	25.0
Benzo(a)anthracene	1.145	1.082	0.2	5.5	25.0
Chrysene	1.838	1.616	0.2	12.1	25.0
Benzo(b)fluoranthene	0.896	0.864	0.2	3.6	25.0
Benzo(k)fluoranthene	1.938	1.590	0.2	18.0	25.0
Benzo(e)pyrene	1.027	0.944	0.2	8.1	25.0
Benzo(a)pyrene	1.101	0.943	0.2	14.4	25.0
Perylene	1.429	1.234	0.2	13.6	25.0
Indeno(1,2,3-cd)pyrene	0.963	0.834	0.2	13.4	25.0
Dibenz(a,h)anthracene	0.724	0.613	0.2	15.3	25.0
Benzo(g,h,i)perylene	0.839	0.733	0.2	12.6	25.0
Naphthalene-d8(SS)	2.453	2.382	0.2	2.9	25.0
Acenaphthene-d10(SS)	1.161	1.142	0.2	1.6	25.0
Phenanthrene-d10(SS)	1.577	1.565	0.2	0.8	25.0
Chrysene-d12(SS)	1.815	1.733	0.2	4.5	25.0
Perylene-d12(SS)	1.137	1.033	0.2	9.1	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Instrument ID: Z Calibration Date: 05/18/04 Time: 1119

Lab File ID: ZFG250F Init. Calib. Date(s): 05/13/04 05/13/04

Init. Calib. Times: 1603 1826

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.130	1.109	0.2	1.8	25.0
2-Methylnaphthalene	0.620	0.579	0.2	6.6	25.0
1-Methylnaphthalene	0.684	0.643	0.2	6.0	25.0
Biphenyl	1.429	1.671	0.2	16.9	25.0
2,6 Dimethylnaphthalene	1.114	1.245	0.2	11.8	25.0
Acenaphthylene	1.989	2.060	0.2	3.6	25.0
Acenaphthene	1.248	1.262	0.2	1.1	25.0
2,3,5 Trimethylnaphthalene	0.897	0.863	0.2	3.8	25.0
Fluorene	1.213	1.337	0.2	10.2	25.0
Dibenzothiophene	1.127	1.143	0.2	1.4	25.0
Phenanthrene	0.975	0.992	0.2	1.7	25.0
Anthracene	1.447	1.467	0.2	1.4	25.0
1-Methylphenanthrene	1.036	0.894	0.2	13.7	25.0
Fluoranthene	1.099	1.029	0.2	6.4	25.0
Pyrene	1.121	1.084	0.2	3.3	25.0
Benzo(a)anthracene	1.145	1.047	0.2	8.6	25.0
Chrysene	1.838	1.622	0.2	11.8	25.0
Benzo(b)fluoranthene	0.896	0.877	0.2	2.1	25.0
Benzo(k)fluoranthene	1.938	1.603	0.2	17.3	25.0
Benzo(e)pyrene	1.027	0.933	0.2	9.2	25.0
Benzo(a)pyrene	1.101	0.950	0.2	13.7	25.0
Perylene	1.429	1.159	0.2	18.9	25.0
Indeno(1,2,3-cd)pyrene	0.963	0.904	0.2	6.1	25.0
Dibenz(a,h)anthracene	0.724	0.650	0.2	10.2	25.0
Benzo(g,h,i)perylene	0.839	0.867	0.2	3.3	25.0
Naphthalene-d8(SS)	2.453	2.452	0.2	0.0	25.0
Acenaphthene-d10(SS)	1.161	0.955	0.2	17.7	25.0
Phenanthrene-d10(SS)	1.577	1.211	0.2	23.2	25.0
Chrysene-d12(SS)	1.815	1.748	0.2	3.7	25.0
Perylene-d12(SS)	1.137	1.017	0.2	10.6	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Instrument ID: Z Calibration Date: 05/19/04 Time: 1228

Lab File ID: ZFG250G4 Init. Calib. Date(s): 05/13/04 05/13/04

Init. Calib. Times: 1603 1826

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.130	1.069	0.2	5.4	25.0
2-Methylnaphthalene	0.620	0.575	0.2	7.2	25.0
1-Methylnaphthalene	0.684	0.647	0.2	5.4	25.0
Biphenyl	1.429	1.606	0.2	12.4	25.0
2,6 Dimethylnaphthalene	1.114	1.234	0.2	10.8	25.0
Acenaphthylene	1.989	2.119	0.2	6.5	25.0
Acenaphthene	1.248	1.282	0.2	2.7	25.0
2,3,5 Trimethylnaphthalene	0.897	1.041	0.2	16.0	25.0
Fluorene	1.213	1.356	0.2	11.8	25.0
Dibenzothiophene	1.127	1.085	0.2	3.7	25.0
Phenanthrene	0.975	0.982	0.2	0.7	25.0
Anthracene	1.447	1.452	0.2	0.3	25.0
1-Methylphenanthrene	1.036	1.081	0.2	4.3	25.0
Fluoranthene	1.099	1.214	0.2	10.5	25.0
Pyrene	1.121	1.291	0.2	15.2	25.0
Benzo(a)anthracene	1.145	1.113	0.2	2.8	25.0
Chrysene	1.838	1.604	0.2	12.7	25.0
Benzo(b)fluoranthene	0.896	1.033	0.2	15.3	25.0
Benzo(k)fluoranthene	1.938	1.535	0.2	20.8	25.0
Benzo(e)pyrene	1.027	0.866	0.2	15.7	25.0
Benzo(a)pyrene	1.101	0.977	0.2	11.3	25.0
Perylene	1.429	1.146	0.2	19.8	25.0
Indeno(1,2,3-cd)pyrene	0.963	0.907	0.2	5.8	25.0
Dibenz(a,h)anthracene	0.724	0.674	0.2	6.9	25.0
Benzo(g,h,i)perylene	0.839	0.772	0.2	8.0	25.0
Naphthalene-d8(SS)	2.453	2.339	0.2	4.6	25.0
Acenaphthene-d10(SS)	1.161	0.960	0.2	17.3	25.0
Phenanthrene-d10(SS)	1.577	1.336	0.2	15.3	25.0
Chrysene-d12(SS)	1.815	1.762	0.2	2.9	25.0
Perylene-d12(SS)	1.137	1.055	0.2	7.2	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFF250F Date Analyzed: 05/06/04

Instrument ID: Z Time Analyzed: 1154

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	123130	8.11	58725	11.64	46398	12.68
	UPPER LIMIT	246260	8.61	117450	12.14	92796	13.18
	LOWER LIMIT	61565	7.61	29362	11.14	23199	12.18
	STLVT SAMPLE NO.						
01	SBLKA3	106634	8.11	50380	11.64	46942	12.68
02	EB2	102413	8.11	47824	11.64	40532	12.68
03	A3LCS	63299	8.11	35659	11.64	49142	12.68
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFF250F Date Analyzed: 05/06/04

Instrument ID: Z Time Analyzed: 1154

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	85992	14.64	61670	20.06	24407	22.64
	UPPER LIMIT	171984	15.14	123340	20.56	48814	23.14
	LOWER LIMIT	42996	14.14	30835	19.56	12204	22.14
	STLVT SAMPLE NO.						
01	SBLKA3	66839	14.64	40276	20.08	18709	22.65
02	EB2	61102	14.64	37845	20.06	17753	22.65
03	A3LCS	54477	14.64	34586	20.06	22153	22.64
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFF250F Date Analyzed: 05/06/04

Instrument ID: Z Time Analyzed: 1154

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	34618	22.78				
	UPPER LIMIT	69236	23.28				
	LOWER LIMIT	17309	22.28				
	STLVT SAMPLE NO.						
01	SBLKA3	11373*	22.80				
02	EB2	19595	22.78				
03	A3LCS	19093	22.78				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFF250I4 Date Analyzed: 05/11/04

Instrument ID: Z Time Analyzed: 1159

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	130108	8.06	66580	11.59	46282	12.62
	UPPER LIMIT	260216	8.56	133160	12.09	92564	13.12
	LOWER LIMIT	65054	7.56	33290	11.09	23141	12.12
	STLVT SAMPLE NO.						
01	F-3-2	71306	8.06	37600	11.59	51844	12.62
02	F-3-3	97535	8.06	52190	11.59	51742	12.62
03	F-3-6	112607	8.06	58565	11.58	55535	12.62
04	F-3-7	118305	8.06	60362	11.59	62767	12.62
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFF250I4 Date Analyzed: 05/11/04

Instrument ID: Z Time Analyzed: 1159

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	95748	14.60	68838	20.02	29745	22.59
	UPPER LIMIT	191496	15.10	137676	20.52	59490	23.09
	LOWER LIMIT	47874	14.10	34419	19.52	14872	22.09
	STLVT SAMPLE NO.						
01	F-3-2	55872	14.58	46876	20.02	40488	22.59
02	F-3-3	77838	14.58	64230	20.02	41189	22.59
03	F-3-6	87072	14.59	71294	20.01	44743	22.58
04	F-3-7	88543	14.58	72878	20.02	51555	22.59
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFF250I4 Date Analyzed: 05/11/04

Instrument ID: Z Time Analyzed: 1159

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	45674	22.71				
	UPPER LIMIT	91348	23.21				
	LOWER LIMIT	22837	22.21				
	STLVT SAMPLE NO.						
01	F-3-2	25425	22.73				
02	F-3-3	35217	22.73				
03	F-3-6	40012	22.72				
04	F-3-7	41522	22.73				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250A Date Analyzed: 05/13/04

Instrument ID: Z Time Analyzed: 1936

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	140642	7.73	67452	11.25	39360	12.29
	UPPER LIMIT	281284	8.23	134904	11.75	78720	12.79
	LOWER LIMIT	70321	7.23	33726	10.75	19680	11.79
	STLVT SAMPLE NO.						
01	F-3-DUP1	98707	7.73	55849	11.25	59338	12.29
02	W-3-DUP2	115985	7.73	57377	11.25	57756	12.31
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250A Date Analyzed: 05/13/04

Instrument ID: Z Time Analyzed: 1936

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	92417	14.24	47599	19.64	18312	22.21
	UPPER LIMIT	184834	14.74	95198	20.14	36624	22.71
	LOWER LIMIT	46208	13.74	23800	19.14	9156	21.71
	STLVT SAMPLE NO.						
01	F-3-DUP1	80029	14.24	48602	19.64	27946	22.21
02	W-3-DUP2	93290	14.24	63109	19.66	36185	22.21
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250A Date Analyzed: 05/13/04

Instrument ID: Z Time Analyzed: 1936

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	28374	22.34				
	UPPER LIMIT	56748	22.84				
	LOWER LIMIT	14187	21.84				
	STLVT SAMPLE NO.						
01	F-3-DUP1	26771	22.34				
02	W-3-DUP2	31433	22.35				
03							
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250F Date Analyzed: 05/18/04

Instrument ID: Z Time Analyzed: 1119

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	218695	7.71	85198	11.25	59456	12.28
	UPPER LIMIT	437390	8.21	170396	11.75	118912	12.78
	LOWER LIMIT	109348	7.21	42599	10.75	29728	11.78
	STLVT SAMPLE NO.						
01	F-3-1	68224*	7.71	27698*	11.25	52548	12.28
02	F-3-4	82586*	7.71	35376*	11.25	60387	12.28
03	F-3-5	64526*	7.71	26832*	11.25	58418	12.28
04	F-3-8	78249*	7.73	33032*	11.25	55774	12.28
05	W-3-9	46545*	7.73	20820*	11.25	61325	12.28
06	W-3-10	165035	7.73	71861	11.25	68771	12.28
07	W-3-12	72428*	7.73	32436*	11.25	61103	12.30
08	W-3-13	70430*	7.73	31411*	11.25	65332	12.30
09	W-3-14	96892*	7.73	43918	11.25	71838	12.30
10	W-3-15	157752	7.73	70365	11.25	63741	12.30
11	W-3-16	93954*	7.73	41613*	11.25	63004	12.30
12	W-3	51321*	7.73	22855*	11.25	65874	12.30
13	W-3MS	45862*	7.73	20310*	11.25	67542	12.30
14	W-3MSD	18463*	7.73	15222*	11.25	66138	12.30
15	F-3	127926	7.73	56342	11.25	64998	12.28
16	F-3MS	122784	7.73	53931	11.25	67185	12.28
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22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250F Date Analyzed: 05/18/04

Instrument ID: Z Time Analyzed: 1119

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	108035	14.21	67060	19.64	25571	22.19
	UPPER LIMIT	216070	14.71	134120	20.14	51142	22.69
	LOWER LIMIT	54018	13.71	33530	19.14	12786	21.69
	STLVT SAMPLE NO.						
01	F-3-1	35084*	14.22	21759*	19.62	24414	22.19
02	F-3-4	41328*	14.22	24449*	19.64	28138	22.19
03	F-3-5	31388*	14.21	22837*	19.64	30225	22.19
04	F-3-8	44263*	14.24	28710*	19.64	27897	22.19
05	W-3-9	27127*	14.24	16992*	19.64	35640	22.19
06	W-3-10	96929	14.24	67713	19.64	41108	22.21
07	W-3-12	44543*	14.24	28771*	19.64	35421	22.21
08	W-3-13	44343*	14.24	30877*	19.64	39729	22.21
09	W-3-14	58491	14.24	41329	19.64	42753	22.21
10	W-3-15	96715	14.24	65922	19.64	39353	22.21
11	W-3-16	57076	14.24	38627	19.64	38838	22.21
12	W-3	29961*	14.24	19527*	19.64	37553	22.21
13	W-3MS	26923*	14.24	18773*	19.64	40579	22.21
14	W-3MSD	23935*	14.24	16695*	19.64	38582	22.21
15	F-3	76750	14.24	50298	19.64	37209	22.21
16	F-3MS	74328	14.24	52727	19.64	41017	22.19
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250F Date Analyzed: 05/18/04

Instrument ID: Z Time Analyzed: 1119

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	39014	22.32				
	UPPER LIMIT	78028	22.82				
	LOWER LIMIT	19507	21.82				
	STLVT SAMPLE NO.						
01	F-3-1	14558*	22.34				
02	F-3-4	17639*	22.33				
03	F-3-5	14236*	22.33				
04	F-3-8	16650*	22.33				
05	W-3-9	12100*	22.33				
06	W-3-10	32831	22.33				
07	W-3-12	18579*	22.33				
08	W-3-13	18703*	22.33				
09	W-3-14	23999	22.33				
10	W-3-15	35644	22.35				
11	W-3-16	21485	22.35				
12	W-3	10773*	22.33				
13	W-3MS	10508*	22.33				
14	W-3MSD	9298*	22.33				
15	F-3	27978	22.33				
16	F-3MS	29663	22.33				
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250G4 Date Analyzed: 05/19/04

Instrument ID: Z Time Analyzed: 1228

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	208728	7.71	85695	11.23	59485	12.28
	UPPER LIMIT	417456	8.21	171390	11.73	118970	12.78
	LOWER LIMIT	104364	7.21	42848	10.73	29742	11.78
	STLVT SAMPLE NO.						
01	F-3MSD	112198	7.69	47175	11.23	67430	12.26
02	W-3-11	127006	7.71	55246	11.23	69135	12.28
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250G4 Date Analyzed: 05/19/04

Instrument ID: Z Time Analyzed: 1228

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	119204	14.21	82241	19.61	31119	22.17
	UPPER LIMIT	238408	14.71	164482	20.11	62238	22.67
	LOWER LIMIT	59602	13.71	41120	19.11	15560	21.67
	STLVT SAMPLE NO.						
01	F-3MSD	60917	14.22	39154*	19.62	35452	22.17
02	W-3-11	75036	14.21	52481	19.62	42099	22.17
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 99877

Lab File ID (Standard): ZFG250G4 Date Analyzed: 05/19/04

Instrument ID: Z Time Analyzed: 1228

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	49263	22.32				
	UPPER LIMIT	98526	22.82				
	LOWER LIMIT	24632	21.82				
	STLVT SAMPLE NO.						
01	F-3MSD	22045*	22.32				
02	W-3-11	33754	22.32				
03							
04							
05							
06							
07							
08							
09							
10							
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12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

STL Burlington
Colchester, Vermont

Sample Data Summary Package

SDG: 106714

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

May 19, 2005

Mr. Paul Sklar
URS Corporation
10200 Innovation Dr.
Suite 500
Milwaukee, WI 53226

Re: Laboratory Project No. 25000
Case: 25000; SDG: 106714

Dear Mr. Sklar:

Enclosed are the analytical results for samples received by STL Burlington on April 23, 2005. This report is sequentially numbered starting with page 0001 and ending with page 0446. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/23/05 ETR No: 106714		
616853	NS-TA-OMORDAX-F-2-1	04/21/05	Tissue
616854	NS-TA-OMORDAX-F-2-2	04/21/05	Tissue
616855	NS-TA-OMORDAX-F-2-3	04/21/05	Tissue
616856	NS-TA-OMORDAX-F-2-4	04/21/05	Tissue
616857	NS-TA-OMORDAX-F-2DUP4	04/21/05	Tissue
616858	NS-TA-OMORDAX-F-2	04/21/05	Tissue
616858MS	NS-TA-OMORDAX-F-2MS	04/21/05	Tissue
616858MD	NS-TA-OMORDAX-F-2MSD	04/21/05	Tissue
616858DP	NS-TA-OMORDAX-F-2REP	04/21/05	Tissue
616859	NS-TA-OMORDAX-W-2-5	04/21/05	Tissue
616860	NS-TA-OMORDAX-W-2-6	04/21/05	Tissue
616861	NS-TA-OMORDAX-W-2-7	04/21/05	Tissue
616862	NS-TA-OMORDAX-W-2-8	04/21/05	Tissue
616863	NS-TA-OMORDAX-F-1-1	04/21/05	Tissue
616864	NS-TA-OMORDAX-F-1-2	04/21/05	Tissue
616865	NS-TA-OMORDAX-F-1-3	04/21/05	Tissue
616866	NS-TA-OMORDAX-F-1-4	04/21/05	Tissue
616867	NS-TA-OMORDAX-W-1-5	04/21/05	Tissue
616868	NS-TA-OMORDAX-W-1-6	04/21/05	Tissue
616869	NS-TA-OMORDAX-W-1-7	04/21/05	Tissue
616870	NS-TA-OMORDAX-W-1-8	04/21/05	Tissue
616871	NS-TA-OMORDAX-W-1DUP3	04/21/05	Tissue
616872	NS-TA-OMORDAX-W-1	04/21/05	Tissue
616872MS	NS-TA-OMORDAX-W-1MS	04/21/05	Tissue

Leaders in Environmental Testing

Severn Trent Laboratories, Inc.

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/23/05 ETR No: 106714 (cont.)		
616872MD	NS-TA-OMORDAX-W-1MSD	04/21/05	Tissue
616872DP	NS-TA-OMORDAX-W-1REP	04/21/05	Tissue
616873	EQBLK		Water

Documentation of the condition of the samples at the time their receipt and any exceptions to the laboratory's Sample Acceptance Policy is included in the Sample Handling section of this submittal.

Client sample identifications were abbreviated on the report forms due to limitations with the data processing software. The entire sample identifier appears in the electronic deliverable.

Please note that the results for the samples in this delivery group are reported on a wet weight basis.

An equipment blank was generated at the time of tissue preparation/homogenization. This equipment blank was carried through the analytical process and the results reported on the same weight/weight basis as the samples. The analysis of the equipment blank was free of contamination.

The PAH analyses of the matrix spikes associated with samples NS-TA-OMORDAX-F-2 and NS-TA-OMORDAX-W-1 yielded percent recoveries for select target analytes that were outside control criteria. The associated blank spike analysis exhibited acceptable recoveries for all compounds.

The PAH analysis of the calibration check standard designated ZGM500A4 yielded an increased response for Dibenzothiophene, resulting in a percent difference that exceeded control criteria. This compound was not detected in the associated field samples above the reporting limit.

The analytical results presented in this data report were generated under a quality system that adheres to the requirements specified in the NELAC standard. This report shall not be reproduced, except in full, without the written approval of the laboratory. The release of the data in this report is authorized by the Laboratory Director or his designee, as verified by the following signature.

If there are any questions regarding this submittal, please contact Don Dawicki at (802) 655-1203.

Sincerely,

Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: UAS Corp
Address: 10200 Innovation Dr Ste 500
Milwaukee WI 53226
Contact: Paul Sklar
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote:

Invoice to:
Company:
Address:
Contact:
Phone:
Fax:

Sampler's Name: Brian Benner
Sampler's Signature: Brian Benner

Proj. No.: 25688375
Project Name: Ashland/NSP Lakefront Site

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

ANALYSIS REQUESTED: Sim PAH; Lipids; % Solids

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	Sim PAH	Lipids	% Solids	Lab/Sample ID (Lab Use Only)
TA	4/22	1415			NS-TA-Omnidax-F-2-1				1	X	X	X	
		1425			NS-TA-Omnidax-F-2-2				1	X	X	X	
		1435			NS-TA-Omnidax-F-2-3				1	X	X	X	
		1440			NS-TA-Omnidax-F-2-4				1	X	X	X	
		1450			NS-TA-Omnidax-F-2-Dup4				1	X	X	X	
		1455 MS			NS-TA-Omnidax-F-2-MS MSD				1	X	X	X	Collected from Reference Area #2
		1500			NS-TA-Omnidax-W-2-5				1	X	X	X	
		1510			NS-TA-Omnidax-W-2-6				1	X	X	X	
		1520			NS-TA-Omnidax-W-2-7				1	X	X	X	
		1530			NS-TA-Omnidax-W-2-8				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Benner	4/22/05	1330	[illegible]	4/23/05	1000
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Ziploc Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT STL

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: WBS Corp
Address: 10200 Innovation Dr. Ste 200
Milwaukee WI 53226
Contact: Paul Sklar
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote:

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Beemer
Sampler's Signature: Brian Beemer

Proj. No.: 25688375
Project Name: Ashland/NSP Lake Front Site

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No/Type of Containers[2] VOA	A/G 1 Lt.	250 ml	P/O	Semi PAH	Lipids	% Solids	Lab/Sample ID (Lab Use Only)
TA	4/21	1230			NS-TA-Omnidax-F-1-1				1	X	X	X	
		1240			NS-TA-Omnidax-F-1-2				1	X	X	X	
		1250			NS-TA-Omnidax-F-1-3				1	X	X	X	
		1300			NS-TA-Omnidax-F-1-4				1	X	X	X	
		1310			NS-TA-Omnidax-W-1-5				1	X	X	X	
		1320			NS-TA-Omnidax-W-1-6				1	X	X	X	
		1330			NS-TA-Omnidax-W-1-7				1	X	X	X	
		1340			NS-TA-Omnidax-W-1-8				1	X	X	X	
		1345			NS-TA-Omnidax-W-1-MS/MSD				1	X	X	X	
		1350			NS-TA-Omnidax-W-1-MS/MSD				1	X	X	X	collected from Ref 1

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Beemer	4/22/05	1330	Jon McCabe	4/23/05	1000
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Ziploc Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-2-1

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616853

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 21.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		21.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-2-2

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616854

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.8	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-2-3

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616855

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.1	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-2-4

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616856

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.7	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-2DU

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616857

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-2

Lab Name: STL BURLINGTON

Contract: 80518 Amnd.

SDG No.: 106714

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 616858

Matrix: TISSUE

Client: URSCO9

Date Received: 04/23/05

% Solids: 22.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.4	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-2REP

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616858DP

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	04/28/05	N/A	%	22.4		22.8		2

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-2-5

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616859

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 24.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		24.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-2-6

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616860

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 24.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		24.5	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-2-7

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616861

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-2-8

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616862

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.6	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-1-1

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616863

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids: 21.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		21.6	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-1-2

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616864

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.2	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-1-3

Lab Name: STL BURLINGTON

Contract: 80518 Amnd.

SDG No.: 106714

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 616865

Matrix: TISSUE

Client: URSCO9

Date Received: 04/23/05

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-1-4

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616866

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-1-5

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616867

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 21.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		21.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-1-6

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616868

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 24.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		24.3	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1-7

Lab Name: STL BURLINGTON

Contract: 80518 Amnd.

SDG No.: 106714

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 616869

Matrix: TISSUE

Client: URSCO9

Date Received: 04/23/05

% Solids: 23.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.1	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1-8

Lab Name: STL BURLINGTON

Contract: 80518 Amnd.

SDG No.: 106714

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 616870

Matrix: TISSUE

Client: URSCO9

Date Received: 04/23/05

% Solids: 23.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.7	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-1DU

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616871

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.7	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-1

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616872

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.5	

Printed on: 05/03/05 02:46 PM

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-1RE

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616872DP

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	04/28/05	N/A	%	22.5		23.6		5

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 05/03/05 02:46 PM

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Geotechnical Analysis
Sample Data Summary Package

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-2-1

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616853

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.8	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-2-2

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616854

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	1.8	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-2-3

Lab Name: STL BURLINGTON

Contract: 80518 Amnd.

SDG No.: 106714

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 616855

Matrix: TISSUE

Client: URSCO9

Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.2	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-2-4

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616856

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.5	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-2DU

Lab Name: STL BURLINGTON | **Contract:** 80518 Amnd. | **SDG No.:** 106714

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 616857

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.5	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-2

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616858

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.3	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-2-5

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616859

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	4.0	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-2-6

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616860

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	4.2	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-2-7

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616861

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	3.8	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-2-8

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616862

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	4.2	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-1-1

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106714

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616863

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.2	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-1-2

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616864

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.6	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-1-3

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616865

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.0	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-1-4

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616866

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.1	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1-5

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616867

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	3.0	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1-6

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616868

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	3.5	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1-7

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616869

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	3.4	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1-8

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616870

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	4.1	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1DU

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616871

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	2.9	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-1

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616872

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	3.3	

Printed on: 04/29/05 10:02 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EQBLK

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106714

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616873

Matrix: WATER | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/29/05		%	1	0.1	0.1	U

Printed on: 04/29/05 10:02 AM

Percent Lipids Calculations

Date: 4/29/2005 **Analyst:** TPB

Time: 0100 **ETR(s):** 106714

Client: URSCO9

Sample ID	Sample Weight (g)	Dish (g)	Dish/Residue (g)	Extract Final Volume (mLs)	Aliquot Used in Determination (mLs)	% Lipids
SBLKY9	40.00	0.9632	0.9635	10	1	< 0.1
Y9LCS	40.00	0.9668	0.9671	10	1	< 0.1
616853	40.01	0.9669	1.0787	10	1	2.8
616854	40.02	0.9662	1.0376	10	1	1.8
616855	39.96	0.9642	1.0506	10	1	2.2
616856	40.00	0.9663	1.0663	10	1	2.5
616857	40.00	0.9664	1.0665	10	1	2.5
616858	40.04	0.9631	1.0569	10	1	2.3
616858DUP	39.98	0.9644	1.0562	10	1	2.3
616859	40.01	0.9653	1.1263	10	1	4.0
616860	40.01	0.9665	1.1350	10	1	4.2
616861	40.02	0.9696	1.1227	10	1	3.8
616862	40.01	0.9675	1.1338	10	1	4.2
616863	40.04	0.9646	1.0526	10	1	2.2
616864	40.00	0.9696	1.0724	10	1	2.6
616865	40.01	0.9701	1.0503	10	1	2.0
616866	40.00	0.9713	1.0563	10	1	2.1
616867	40.03	0.9700	1.0907	10	1	3.0
616868	39.98	0.9664	1.1080	10	1	3.5
616869	40.00	0.9657	1.1035	10	1	3.4
616870	40.01	0.9689	1.1332	10	1	4.1
616871	40.02	0.9721	1.0889	10	1	2.9
616872	40.02	0.9724	1.1030	10	1	3.3
616872DUP	40.04	0.9657	1.0824	10	1	2.9
616873	40.02	0.9689	0.9689	10	1	< 0.1
						#DIV/0!

SEVERN TRENT STL

SAT PAH

SAMPLE DATA SUMMARY PACKAGE

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-1-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616863

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616863

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	11	
90-12-0	1-Methylnaphthalene	9.1	U
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	15	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	13	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	55	
120-12-7	Anthracene	9.1	U
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	30	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-1-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616864

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616864

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 05/03/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	9.7	
90-12-0	1-Methylnaphthalene	9.1	U
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	16	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	14	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	40	
120-12-7	Anthracene	9.1	U
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	22	
129-00-0	Pyrene	9.1	U
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-1-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616865

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616865

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
90-12-0	1-Methylnaphthalene	9.1	U
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	14	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	12	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	9.1	U
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	26	
129-00-0	Pyrene	9.1	U
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-1-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616866

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616866

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
90-12-0	1-Methylnaphthalene	8.7	U
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	17	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	17	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	67	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	36	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616858

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616858

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
90-12-0	1-Methylnaphthalene	9.1	U
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	17	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	16	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	43	
120-12-7	Anthracene	9.1	U
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	31	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

AX-F-2-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616853

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616853

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 79 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.5	U
91-57-6	2-Methylnaphthalene	9.5	U
90-12-0	1-Methylnaphthalene	9.5	U
92-52-4	Biphenyl	9.5	U
581-42-0	2,6 Dimethylnaphthalene	9.5	U
208-96-8	Acenaphthylene	9.5	U
83-32-9	Acenaphthene	15	
2245-38-7	2,3,5 Trimethylnaphthalene	9.5	U
86-73-7	Fluorene	14	
132-65-0	Dibenzothiophene	9.5	U
85-01-8	Phenanthrene	33	
120-12-7	Anthracene	9.5	U
832-69-9	1-Methylphenanthrene	9.5	U
206-44-0	Fluoranthene	26	
129-00-0	Pyrene	9.6	
56-55-3	Benzo(a)anthracene	9.5	U
218-01-9	Chrysene	9.5	U
205-99-2	Benzo(b)fluoranthene	9.5	U
207-08-9	Benzo(k)fluoranthene	9.5	U
192-97-2	Benzo(e)pyrene	9.5	U
50-32-8	Benzo(a)pyrene	9.5	U
198-55-0	Perylene	9.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	U
53-70-3	Dibenz(a,h)anthracene	9.5	U
191-24-2	Benzo(g,h,i)perylene	9.5	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-2-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616854

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616854

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
90-12-0	1-Methylnaphthalene	8.7	U
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	12	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	11	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	23	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	16	
129-00-0	Pyrene	8.7	U
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-2-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616855

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616855

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
90-12-0	1-Methylnaphthalene	9.1	U
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	14	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	12	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	27	
120-12-7	Anthracene	9.1	U
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	18	
129-00-0	Pyrene	9.1	U
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-2-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616856

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616856

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 05/03/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
90-12-0	1-Methylnaphthalene	8.7	U
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	12	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	11	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	35	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	23	
129-00-0	Pyrene	9.1	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-2DUP4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616857

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616857

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
90-12-0	1-Methylnaphthalene	8.7	U
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	16	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	14	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	32	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	20	
129-00-0	Pyrene	8.7	U
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

AX-W-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616872

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616872

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	10	
90-12-0	1-Methylnaphthalene	9.1	U
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	20	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	19	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	59	
120-12-7	Anthracene	9.1	U
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	33	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-1-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616867

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616867

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 79 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	9.9	
90-12-0	1-Methylnaphthalene	9.5	U
92-52-4	Biphenyl	9.5	U
581-42-0	2,6 Dimethylnaphthalene	9.5	U
208-96-8	Acenaphthylene	9.5	U
83-32-9	Acenaphthene	15	
2245-38-7	2,3,5 Trimethylnaphthalene	9.5	U
86-73-7	Fluorene	14	
132-65-0	Dibenzothiophene	9.5	U
85-01-8	Phenanthrene	59	
120-12-7	Anthracene	9.5	U
832-69-9	1-Methylphenanthrene	9.5	U
206-44-0	Fluoranthene	37	
129-00-0	Pyrene	16	
56-55-3	Benzo(a)anthracene	9.5	U
218-01-9	Chrysene	9.5	U
205-99-2	Benzo(b)fluoranthene	9.5	U
207-08-9	Benzo(k)fluoranthene	9.5	U
192-97-2	Benzo(e)pyrene	9.5	U
50-32-8	Benzo(a)pyrene	9.5	U
198-55-0	Perylene	9.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	U
53-70-3	Dibenz(a,h)anthracene	9.5	U
191-24-2	Benzo(g,h,i)perylene	9.5	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-1-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616868

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616868

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	11	
90-12-0	1-Methylnaphthalene	11	
92-52-4	Biphenyl	8.3	U
581-42-0	2,6 Dimethylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	20	
2245-38-7	2,3,5 Trimethylnaphthalene	8.3	U
86-73-7	Fluorene	18	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	68	
120-12-7	Anthracene	8.3	U
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	32	
129-00-0	Pyrene	9.1	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-1-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616869

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616869

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted:05/03/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	14	
90-12-0	1-Methylnaphthalene	13	
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	24	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	20	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	60	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	29	
129-00-0	Pyrene	9.8	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

AX-W-1-8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616870

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616870

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	12	
90-12-0	1-Methylnaphthalene	10	
92-52-4	Biphenyl	8.3	U
581-42-0	2,6 Dimethylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	22	
2245-38-7	2,3,5 Trimethylnaphthalene	8.3	U
86-73-7	Fluorene	22	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	84	
120-12-7	Anthracene	8.3	U
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-1DUP3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616871

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616871

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	17	
90-12-0	1-Methylnaphthalene	15	
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	22	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	22	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	75	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	35	
129-00-0	Pyrene	9.6	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

AX-W-2-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616859

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616859

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.3	U
91-57-6	2-Methylnaphthalene	9.2	
90-12-0	1-Methylnaphthalene	8.3	U
92-52-4	Biphenyl	8.3	U
581-42-0	2,6 Dimethylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	21	
2245-38-7	2,3,5 Trimethylnaphthalene	8.3	U
86-73-7	Fluorene	20	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	55	
120-12-7	Anthracene	8.3	U
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	36	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-2-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616860

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616860

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.5	
91-57-6	2-Methylnaphthalene	9.2	
90-12-0	1-Methylnaphthalene	9.4	
92-52-4	Biphenyl	8.3	U
581-42-0	2,6 Dimethylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	18	
2245-38-7	2,3,5 Trimethylnaphthalene	8.3	U
86-73-7	Fluorene	14	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	38	
120-12-7	Anthracene	8.3	U
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	26	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-2-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616861

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616861

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.8	
91-57-6	2-Methylnaphthalene	8.7	U
90-12-0	1-Methylnaphthalene	8.7	U
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	16	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	14	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	25	
129-00-0	Pyrene	8.7	U
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-2-8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616862

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616862

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.5	
91-57-6	2-Methylnaphthalene	10	
90-12-0	1-Methylnaphthalene	9.0	
92-52-4	Biphenyl	8.3	U
581-42-0	2,6 Dimethylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	20	
2245-38-7	2,3,5 Trimethylnaphthalene	8.3	U
86-73-7	Fluorene	19	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	73	
120-12-7	Anthracene	8.3	U
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	40	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

EQBLK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616873

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616873

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKA1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: SBLKA1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0503A1

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/03/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKY9

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: SBLKY9

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0428Y9

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-2MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616858MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616858M

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	56	
91-57-6	2-Methylnaphthalene	60	
90-12-0	1-Methylnaphthalene	58	
92-52-4	Biphenyl	50	
581-42-0	2,6 Dimethylnaphthalene	52	
208-96-8	Acenaphthylene	52	
83-32-9	Acenaphthene	62	
2245-38-7	2,3,5 Trimethylnaphthalene	52	
86-73-7	Fluorene	62	
132-65-0	Dibenzothiophene	46	
85-01-8	Phenanthrene	82	
120-12-7	Anthracene	50	
832-69-9	1-Methylphenanthrene	56	
206-44-0	Fluoranthene	77	
129-00-0	Pyrene	59	
56-55-3	Benzo(a)anthracene	55	
218-01-9	Chrysene	51	
205-99-2	Benzo(b)fluoranthene	73	
207-08-9	Benzo(k)fluoranthene	58	
192-97-2	Benzo(e)pyrene	53	
50-32-8	Benzo(a)pyrene	58	
198-55-0	Perylene	55	
193-39-5	Indeno(1,2,3-cd)pyrene	61	
53-70-3	Dibenz(a,h)anthracene	63	
191-24-2	Benzo(g,h,i)perylene	58	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-2MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616858MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616858S

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	56	
91-57-6	2-Methylnaphthalene	60	
90-12-0	1-Methylnaphthalene	60	
92-52-4	Biphenyl	52	
581-42-0	2,6 Dimethylnaphthalene	55	
208-96-8	Acenaphthylene	52	
83-32-9	Acenaphthene	65	
2245-38-7	2,3,5 Trimethylnaphthalene	49	
86-73-7	Fluorene	60	
132-65-0	Dibenzothiophene	55	
85-01-8	Phenanthrene	90	
120-12-7	Anthracene	61	
832-69-9	1-Methylphenanthrene	57	
206-44-0	Fluoranthene	81	
129-00-0	Pyrene	61	
56-55-3	Benzo(a)anthracene	51	
218-01-9	Chrysene	51	
205-99-2	Benzo(b)fluoranthene	68	
207-08-9	Benzo(k)fluoranthene	49	
192-97-2	Benzo(e)pyrene	49	
50-32-8	Benzo(a)pyrene	55	
198-55-0	Perylene	50	
193-39-5	Indeno(1,2,3-cd)pyrene	52	
53-70-3	Dibenz(a,h)anthracene	53	
191-24-2	Benzo(g,h,i)perylene	51	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-1MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616872MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616872M

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	58	
91-57-6	2-Methylnaphthalene	66	
90-12-0	1-Methylnaphthalene	65	
92-52-4	Biphenyl	51	
581-42-0	2,6 Dimethylnaphthalene	59	
208-96-8	Acenaphthylene	54	
83-32-9	Acenaphthene	72	
2245-38-7	2,3,5 Trimethylnaphthalene	54	
86-73-7	Fluorene	68	
132-65-0	Dibenzothiophene	57	
85-01-8	Phenanthrene	110	
120-12-7	Anthracene	60	
832-69-9	1-Methylphenanthrene	58	
206-44-0	Fluoranthene	80	
129-00-0	Pyrene	74	
56-55-3	Benzo(a)anthracene	64	
218-01-9	Chrysene	50	
205-99-2	Benzo(b)fluoranthene	77	
207-08-9	Benzo(k)fluoranthene	52	
192-97-2	Benzo(e)pyrene	54	
50-32-8	Benzo(a)pyrene	54	
198-55-0	Perylene	56	
193-39-5	Indeno(1,2,3-cd)pyrene	53	
53-70-3	Dibenz(a,h)anthracene	51	
191-24-2	Benzo(g,h,i)perylene	52	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-1MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: 616872MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616872S

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	59	
91-57-6	2-Methylnaphthalene	65	
90-12-0	1-Methylnaphthalene	64	
92-52-4	Biphenyl	51	
581-42-0	2,6 Dimethylnaphthalene	58	
208-96-8	Acenaphthylene	54	
83-32-9	Acenaphthene	72	
2245-38-7	2,3,5 Trimethylnaphthalene	53	
86-73-7	Fluorene	68	
132-65-0	Dibenzothiophene	58	
85-01-8	Phenanthrene	110	
120-12-7	Anthracene	61	
832-69-9	1-Methylphenanthrene	58	
206-44-0	Fluoranthene	87	
129-00-0	Pyrene	64	
56-55-3	Benzo(a)anthracene	52	
218-01-9	Chrysene	52	
205-99-2	Benzo(b)fluoranthene	83	
207-08-9	Benzo(k)fluoranthene	46	
192-97-2	Benzo(e)pyrene	48	
50-32-8	Benzo(a)pyrene	52	
198-55-0	Perylene	49	
193-39-5	Indeno(1,2,3-cd)pyrene	46	
53-70-3	Dibenz(a,h)anthracene	48	
191-24-2	Benzo(g,h,i)perylene	43	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

A1LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: A1LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0503A1

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/03/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	12	
90-12-0	1-Methylnaphthalene	12	
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	11	
2245-38-7	2,3,5 Trimethylnaphthalene	12	
86-73-7	Fluorene	12	
132-65-0	Dibenzothiophene	9.7	
85-01-8	Phenanthrene	7.9	
120-12-7	Anthracene	8.3	
832-69-9	1-Methylphenanthrene	9.6	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	12	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	10	
207-08-9	Benzo(k)fluoranthene	11	
192-97-2	Benzo(e)pyrene	11	
50-32-8	Benzo(a)pyrene	10	
198-55-0	Perylene	10	
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenz(a,h)anthracene	9.3	
191-24-2	Benzo(g,h,i)perylene	10	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Y9LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix: (soil/water) SOIL Lab Sample ID: Y9LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0428Y9

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/28/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/06/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	12	
90-12-0	1-Methylnaphthalene	12	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	12	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	12	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	13	
132-65-0	Dibenzothiophene	9.8	
85-01-8	Phenanthrene	6.9	
120-12-7	Anthracene	7.5	
832-69-9	1-Methylphenanthrene	9.0	
206-44-0	Fluoranthene	9.1	
129-00-0	Pyrene	9.7	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	9.9	
207-08-9	Benzo(k)fluoranthene	11	
192-97-2	Benzo(e)pyrene	11	
50-32-8	Benzo(a)pyrene	9.6	
198-55-0	Perylene	8.7	
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenz(a,h)anthracene	9.1	
191-24-2	Benzo(g,h,i)perylene	10	

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Level: (low/med) LOW

	STLVT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	A1LCS	71	75	88	68	63				0
02	SBLKA1	74	78	94	70	57				0
03	Y9LCS	78	80	100	76	72				0
04	SBLKY9	68	69	87	64	56				0
05	EQBLK	72	73	84	68	76				0
06	AX-F-2-1	62	66	75	60	60				0
07	AX-F-2-2	48	53	60	52	52				0
08	AX-F-2-3	56	63	71	63	59				0
09	AX-F-2DUP4	59	66	74	66	61				0
10	AX-F-2	59	67	68	65	50				0
11	AX-W-2-5	56	64	66	65	61				0
12	AX-W-2-6	57	67	67	67	54				0
13	AX-W-2-7	59	69	64	66	63				0
14	AX-W-2-8	61	73	62	69	64				0
15	AX-F-1-1	54	66	57	66	66				0
16	AX-F-1-3	57	68	58	64	58				0
17	AX-F-1-4	58	72	60	66	63				0
18	AX-W-1-5	52	66	54	66	65				0
19	AX-W-1-6	50	61	50	61	59				0
20	AX-W-1-8	52	63	53	66	61				0
21	AX-W-1DUP3	34	58	53	69	60				0
22	AX-F-2MS	63	69	72	63	69				0
23	AX-F-2MSD	51	55	52	57	48				0
24	AX-W-1	48	53	51	61	56				0
25	AX-W-1MS	40	46	44	44	43				0
26	AX-W-1MSD	53	59	57	67	58				0
27	AX-F-2-4	53	60	56	65	62				0
28	AX-F-1-2	78	86	84	91	81				0
29	AX-W-1-7	42	45	44	52	46				0
30										

		QC LIMITS
S1	= Naphthalene-d8(SS)	(20-130)
S2	= Acenaphthene-d10(SS)	(20-130)
S3	= Phenanthrene-d10(SS)	(20-130)
S4	= Chrysene-d12(SS)	(20-130)
S5	= Perylene-d12(SS)	(20-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix Spike - URSC09 Sample No.: AX-F-2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	45	0.0	56	124	60-140
2-Methylnaphthalene	45	0.0	60	133	60-140
1-Methylnaphthalene	45	0.0	58	129	60-140
Biphenyl	45	0.0	50	111	60-140
2,6 Dimethylnaphthalene	45	0.0	52	116	60-140
Acenaphthylene	45	0.0	52	116	60-140
Acenaphthene	45	17	62	100	60-140
2,3,5 Trimethylnaphthal	45	0.0	52	116	60-140
Fluorene	45	16	62	102	60-140
Dibenzothiophene	45	0.0	46	102	60-140
Phenanthrene	45	43	82	87	60-140
Anthracene	45	0.0	50	111	60-140
1-Methylphenanthrene	45	0.0	56	124	60-140
Fluoranthene	45	31	77	102	60-140
Pyrene	45	13	59	102	60-140
Benzo(a)anthracene	45	0.0	55	122	60-140
Chrysene	45	0.0	51	113	60-140
Benzo(b)fluoranthene	45	0.0	73	162*	60-140
Benzo(k)fluoranthene	45	0.0	58	129	60-140
Benzo(e)pyrene	45	0.0	53	118	60-140
Benzo(a)pyrene	45	0.0	58	129	60-140
Perylene	45	0.0	55	122	60-140
Indeno(1,2,3-cd)pyrene	45	0.0	61	136	60-140
Dibenz(a,h)anthracene	45	0.0	63	140	60-140
Benzo(g,h,i)perylene	45	0.0	58	129	60-140

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

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix Spike - URSCO9 Sample No.: AX-F-2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	45	56	124	0	40	60-140
2-Methylnaphthalene	45	60	133	0	40	60-140
1-Methylnaphthalene	45	60	133	3	40	60-140
Biphenyl	45	52	116	4	40	60-140
2,6 Dimethylnaphthalene	45	55	122	5	40	60-140
Acenaphthylene	45	52	116	0	40	60-140
Acenaphthene	45	65	107	7	40	60-140
2,3,5 Trimethylnaphthal	45	49	109	6	40	60-140
Fluorene	45	60	98	4	40	60-140
Dibenzothiophene	45	55	122	18	40	60-140
Phenanthrene	45	90	104	18	40	60-140
Anthracene	45	61	136	20	40	60-140
1-Methylphenanthrene	45	57	127	2	40	60-140
Fluoranthene	45	81	111	8	40	60-140
Pyrene	45	61	107	5	40	60-140
Benzo(a)anthracene	45	51	113	8	40	60-140
Chrysene	45	51	113	0	40	60-140
Benzo(b)fluoranthene	45	68	151*	7	40	60-140
Benzo(k)fluoranthene	45	49	109	17	40	60-140
Benzo(e)pyrene	45	49	109	8	40	60-140
Benzo(a)pyrene	45	55	122	6	40	60-140
Perylene	45	50	111	9	40	60-140
Indeno(1,2,3-cd)pyrene	45	52	116	16	40	60-140
Dibenz(a,h)anthracene	45	53	118	17	40	60-140
Benzo(g,h,i)perylene	45	51	113	13	40	60-140

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

RPD: 0 out of 25 outside limits
Spike Recovery: 2 out of 50 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix Spike - URSCO9 Sample No.: AX-W-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	45	0.0	58	129	60-140
2-Methylnaphthalene	45	10	66	124	60-140
1-Methylnaphthalene	45	0.0	65	144*	60-140
Biphenyl	45	0.0	51	113	60-140
2,6 Dimethylnaphthalene	45	0.0	59	131	60-140
Acenaphthylene	45	0.0	54	120	60-140
Acenaphthene	45	20	72	116	60-140
2,3,5 Trimethylnaphthal	45	0.0	54	120	60-140
Fluorene	45	19	68	109	60-140
Dibenzothiophene	45	0.0	57	127	60-140
Phenanthrene	45	59	110	113	60-140
Anthracene	45	0.0	60	133	60-140
1-Methylphenanthrene	45	0.0	58	129	60-140
Fluoranthene	45	33	80	104	60-140
Pyrene	45	10	74	142*	60-140
Benzo(a)anthracene	45	0.0	64	142*	60-140
Chrysene	45	0.0	50	111	60-140
Benzo(b)fluoranthene	45	0.0	77	171*	60-140
Benzo(k)fluoranthene	45	0.0	52	116	60-140
Benzo(e)pyrene	45	0.0	54	120	60-140
Benzo(a)pyrene	45	0.0	54	120	60-140
Perylene	45	0.0	56	124	60-140
Indeno(1,2,3-cd)pyrene	45	0.0	53	118	60-140
Dibenz(a,h)anthracene	45	0.0	51	113	60-140
Benzo(g,h,i)perylene	45	0.0	52	116	60-140

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

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix Spike - URSCO9 Sample No.: AX-W-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	45	59	131	2	40	60-140
2-Methylnaphthalene	45	65	122	2	40	60-140
1-Methylnaphthalene	45	64	142*	1	40	60-140
Biphenyl	45	51	113	0	40	60-140
2,6 Dimethylnaphthalene	45	58	129	2	40	60-140
Acenaphthylene	45	54	120	0	40	60-140
Acenaphthene	45	72	116	0	40	60-140
2,3,5 Trimethylnaphthal	45	53	118	2	40	60-140
Fluorene	45	68	109	0	40	60-140
Dibenzothiophene	45	58	129	2	40	60-140
Phenanthrene	45	110	113	0	40	60-140
Anthracene	45	61	136	2	40	60-140
1-Methylphenanthrene	45	58	129	0	40	60-140
Fluoranthene	45	87	120	14	40	60-140
Pyrene	45	64	120	17	40	60-140
Benzo(a)anthracene	45	52	116	20	40	60-140
Chrysene	45	52	116	4	40	60-140
Benzo(b)fluoranthene	45	83	184*	7	40	60-140
Benzo(k)fluoranthene	45	46	102	13	40	60-140
Benzo(e)pyrene	45	48	107	11	40	60-140
Benzo(a)pyrene	45	52	116	3	40	60-140
Perylene	45	49	109	13	40	60-140
Indeno(1,2,3-cd)pyrene	45	46	102	14	40	60-140
Dibenz(a,h)anthracene	45	48	107	5	40	60-140
Benzo(g,h,i)perylene	45	43	96	19	40	60-140

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

RPD: 0 out of 25 outside limits
Spike Recovery: 6 out of 50 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix Spike - STLVT Sample No.: A1LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		11	110	60-140
2-Methylnaphthalene	10		12	120	60-140
1-Methylnaphthalene	10		12	120	60-140
Biphenyl	10		11	110	60-140
2,6 Dimethylnaphthalene	10		11	110	60-140
Acenaphthylene	10		12	120	60-140
Acenaphthene	10		11	110	60-140
2,3,5 Trimethylnaphthal	10		12	120	60-140
Fluorene	10		12	120	60-140
Dibenzothiophene	10		9.7	97	60-140
Phenanthrene	10		7.9	79	60-140
Anthracene	10		8.3	83	60-140
1-Methylphenanthrene	10		9.6	96	60-140
Fluoranthene	10		10	100	60-140
Pyrene	10		11	110	60-140
Benzo(a)anthracene	10		12	120	60-140
Chrysene	10		11	110	60-140
Benzo(b)fluoranthene	10		10	100	60-140
Benzo(k)fluoranthene	10		11	110	60-140
Benzo(e)pyrene	10		11	110	60-140
Benzo(a)pyrene	10		10	100	60-140
Perylene	10		10	100	60-140
Indeno(1,2,3-cd)pyrene	10		10	100	60-140
Dibenz(a,h)anthracene	10		9.3	93	60-140
Benzo(g,h,i)perylene	10		10	100	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 25 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Matrix Spike - STLVT Sample No.: Y9LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		12	120	60-140
2-Methylnaphthalene	10		12	120	60-140
1-Methylnaphthalene	10		12	120	60-140
Biphenyl	10		12	120	60-140
2,6 Dimethylnaphthalene	10		12	120	60-140
Acenaphthylene	10		12	120	60-140
Acenaphthene	10		12	120	60-140
2,3,5 Trimethylnaphthal	10		13	130	60-140
Fluorene	10		13	130	60-140
Dibenzothiophene	10		9.8	98	60-140
Phenanthrene	10		6.9	69	60-140
Anthracene	10		7.5	75	60-140
1-Methylphenanthrene	10		9.0	90	60-140
Fluoranthene	10		9.1	91	60-140
Pyrene	10		9.7	97	60-140
Benzo(a)anthracene	10		11	110	60-140
Chrysene	10		11	110	60-140
Benzo(b)fluoranthene	10		9.9	99	60-140
Benzo(k)fluoranthene	10		11	110	60-140
Benzo(e)pyrene	10		11	110	60-140
Benzo(a)pyrene	10		9.6	96	60-140
Perylene	10		8.7	87	60-140
Indeno(1,2,3-cd)pyrene	10		10	100	60-140
Dibenz(a,h)anthracene	10		9.1	91	60-140
Benzo(g,h,i)perylene	10		10	100	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 25 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKA1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID: B0503A1 Lab Sample ID: SBLKA1

Instrument ID: Z Date Extracted: 05/03/05

Matrix: (soil/water) SOIL Date Analyzed: 05/06/05

Level:(low/med) LOW Time Analyzed: 1428

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	A1LCS	A1LCS	Q0503A1	05/06/05
02	AX-F-2-4	616856	616856	05/12/05
03	AX-F-1-2	616864	616864	05/12/05
04	AX-W-1-7	616869	616869	05/12/05
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COMMENTS:

FORM IV SV

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKY9

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID: B0428Y9 Lab Sample ID: SBLKY9

Instrument ID: Z Date Extracted: 04/28/05

Matrix: (soil/water) SOIL Date Analyzed: 05/06/05

Level:(low/med) LOW Time Analyzed: 1539

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	Y9LCS	Y9LCS	Q0428Y9	05/06/05
02	EQBLK	616873	616873	05/09/05
03	AX-F-2-1	616853	616853	05/09/05
04	AX-F-2-2	616854	616854	05/09/05
05	AX-F-2-3	616855	616855	05/09/05
06	AX-F-2DUP4	616857	616857	05/09/05
07	AX-F-2	616858	616858	05/09/05
08	AX-W-2-5	616859	616859	05/09/05
09	AX-W-2-6	616860	616860	05/09/05
10	AX-W-2-7	616861	616861	05/09/05
11	AX-W-2-8	616862	616862	05/09/05
12	AX-F-1-1	616863	616863	05/09/05
13	AX-F-1-3	616865	616865	05/09/05
14	AX-F-1-4	616866	616866	05/09/05
15	AX-W-1-5	616867	616867	05/09/05
16	AX-W-1-6	616868	616868	05/09/05
17	AX-W-1-8	616870	616870	05/09/05
18	AX-W-1DUP3	616871	616871	05/09/05
19	AX-F-2MS	616858MS	616858M	05/12/05
20	AX-F-2MSD	616858MD	616858S	05/12/05
21	AX-W-1	616872	616872	05/12/05
22	AX-W-1MS	616872MS	616872M	05/12/05
23	AX-W-1MSD	616872MD	616872S	05/12/05
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID: ZGM05PS DFTPP Injection Date: 05/06/05

Instrument ID: Z DFTPP Injection Time: 0512

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	43.0
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	53.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	22.0
365	Greater than 1.0% of mass 198	2.43
441	Present, but less than mass 443	14.9
442	Greater than 40.0% of mass 198	90.4
443	17.0 - 23.0% of mass 442	18.3 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD1000	SSTD1000	ZGM1000	05/06/05	0612
02	SSTD500	SSTD500	ZGM500	05/06/05	0648
03	SSTD200	SSTD200	ZGM200	05/06/05	0723
04	SSTD040	SSTD040	ZGM040	05/06/05	0759
05	SSTD2000	SSTD2000	ZGM20002	05/06/05	0835
06	A1LCS	A1LCS	Q0503A1	05/06/05	1353
07	SBLKA1	SBLKA1	B0503A1	05/06/05	1428
08	Y9LCS	Y9LCS	Q0428Y9	05/06/05	1504
09	SBLKY9	SBLKY9	B0428Y9	05/06/05	1539
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID: ZGM09PS DFTPP Injection Date: 05/09/05

Instrument ID: Z DFTPP Injection Time: 0839

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.3 (0.6)1
69	Mass 69 relative abundance	42.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	54.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.0
365	Greater than 1.0% of mass 198	2.70
441	Present, but less than mass 443	16.4
442	Greater than 40.0% of mass 198	101.4
443	17.0 - 23.0% of mass 442	19.8 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZGM500A4	05/09/05	0855
02	EQBLK	616873	616873	05/09/05	1055
03	AX-F-2-1	616853	616853	05/09/05	1132
04	AX-F-2-2	616854	616854	05/09/05	1207
05	AX-F-2-3	616855	616855	05/09/05	1243
06	AX-F-2DUP4	616857	616857	05/09/05	1318
07	AX-F-2	616858	616858	05/09/05	1354
08	AX-W-2-5	616859	616859	05/09/05	1429
09	AX-W-2-6	616860	616860	05/09/05	1505
10	AX-W-2-7	616861	616861	05/09/05	1540
11	AX-W-2-8	616862	616862	05/09/05	1616
12	AX-F-1-1	616863	616863	05/09/05	1651
13	AX-F-1-3	616865	616865	05/09/05	1727
14	AX-F-1-4	616866	616866	05/09/05	1802
15	AX-W-1-5	616867	616867	05/09/05	1838
16	AX-W-1-6	616868	616868	05/09/05	1913
17	AX-W-1-8	616870	616870	05/09/05	1948
18	AX-W-1DUP3	616871	616871	05/09/05	2024
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID: ZGP02PS DFTPP Injection Date: 05/12/05

Instrument ID: Z DFTPP Injection Time: 0535

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.0
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	58.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.0% of mass 198	2.76
441	Present, but less than mass 443	15.5
442	Greater than 40.0% of mass 198	93.7
443	17.0 - 23.0% of mass 442	18.7 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD2000	SSTD2000	ZGP2000	05/12/05	0803
02	SSTD1000	SSTD1000	ZGP1000	05/12/05	0838
03	SSTD500	SSTD500	ZGP500	05/12/05	0914
04	SSTD200	SSTD200	ZGP200	05/12/05	0949
05	SSTD040	SSTD040	ZGP040	05/12/05	1025
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID: ZGP09PS DFTPP Injection Date: 05/12/05

Instrument ID: Z DFTPP Injection Time: 1417

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.6
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	40.0 - 60.0% of mass 198	58.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 1.0% of mass 198	2.73
441	Present, but less than mass 443	15.7
442	Greater than 40.0% of mass 198	97.0
443	17.0 - 23.0% of mass 442	19.0 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZGP500A	05/12/05	1439
02	AX-F-2MS	616858MS	616858M	05/12/05	1648
03	AX-F-2MSD	616858MD	616858S	05/12/05	1723
04	AX-W-1	616872	616872	05/12/05	1758
05	AX-W-1MS	616872MS	616872M	05/12/05	1834
06	AX-W-1MSD	616872MD	616872S	05/12/05	1909
07	AX-F-2-4	616856	616856	05/12/05	1945
08	AX-F-1-2	616864	616864	05/12/05	2021
09	AX-W-1-7	616869	616869	05/12/05	2056
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6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Instrument ID: Z Calibration Date(s): 05/06/05

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF40 =zgm040.d RRF200=zgm200.d
RRF500=zgm500.d RRF1000=zgm1000.d RRF2000=zgm20002.d

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene	1.234	1.143	1.059	1.028	0.936	1.080	10.5
2-Methylnaphthalene	0.744	0.693	0.647	0.623	0.565	0.654	10.4
1-Methylnaphthalene	0.697	0.645	0.586	0.572	0.539	0.608	10.4
Biphenyl	2.060	1.766	1.590	1.484	1.410	1.662	15.6
2,6 Dimethylnaphthalene	1.307	1.186	1.100	1.071	1.014	1.136	10.1
Acenaphthylene	1.908	1.767	1.693	1.708	1.613	1.738	6.3
Acenaphthene	1.284	1.188	1.080	1.042	0.967	1.112	11.2
2,3,5 Trimethylnaphthalene	1.067	0.986	0.948	0.932	0.899	0.966	6.7
Fluorene	1.519	1.405	1.284	1.265	1.184	1.331	9.9
Dibenzothiophene	1.378	1.200	1.056	0.955	0.872	1.092	18.4
Phenanthrene	2.038	1.725	1.557	1.376	1.298	1.599	18.5
Anthracene	1.187	1.107	1.067	0.997	0.923	1.056	9.6
1-Methylphenanthrene	1.039	0.946	0.908	0.885	0.822	0.920	8.8
Fluoranthene	1.488	1.361	1.339	1.303	1.267	1.352	6.2
Pyrene	1.488	1.284	1.236	1.386	1.138	1.306	10.3
Benzo(a)anthracene	1.530	1.517	1.471	1.356	1.383	1.451	5.4
Chrysene	1.880	1.647	1.498	1.398	1.277	1.540	15.2
Benzo(b)fluoranthene	1.687	1.655	1.568	1.386	1.410	1.541	9.0
Benzo(k)fluoranthene	1.930	1.827	1.765	1.591	1.619	1.746	8.1
Benzo(e)pyrene	1.704	1.475	1.357	1.217	1.239	1.398	14.3
Benzo(a)pyrene	1.540	1.496	1.414	1.285	1.317	1.410	7.8
Perylene	1.579	1.602	1.515	1.359	1.379	1.487	7.5
Indeno(1,2,3-cd)pyrene	1.458	1.464	1.473	1.407	1.448	1.450	1.8
Dibenz(a,h)anthracene	1.105	1.087	1.134	1.098	1.131	1.111	1.9
Benzo(g,h,i)perylene	1.418	1.394	1.348	1.266	1.246	1.334	5.7
Naphthalene-d8(SS)	1.997	1.834	1.834	1.809	1.743	1.843	5.1
Acenaphthene-d10(SS)	0.890	0.834	0.834	0.847	0.792	0.839	4.2
Phenanthrene-d10(SS)	1.194	1.138	1.127	1.187	1.123	1.154	2.9
Chrysene-d12(SS)	1.154	1.116	1.080	1.080	0.908	1.068	8.8
Perylene-d12(SS)	0.824	0.862	0.842	0.742	0.676	0.789	9.9

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Instrument ID: Z Calibration Date(s): 05/12/05

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF40 =zgp040.d RRF200=zgp200.d
RRF500=zgp500.d RRF1000=zgp1000.d RRF2000=zgp2000.d

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene	1.170	1.133	1.127	1.107	1.059	1.119	3.6
2-Methylnaphthalene	0.618	0.622	0.644	0.649	0.658	0.638	2.7
1-Methylnaphthalene	0.580	0.585	0.608	0.598	0.572	0.589	2.4
Biphenyl	1.665	1.656	1.627	1.568	1.568	1.617	2.9
2,6 Dimethylnaphthalene	1.100	1.099	1.134	1.106	1.107	1.109	1.3
Acenaphthylene	1.672	1.751	1.824	1.920	2.108	1.855	9.1
Acenaphthene	1.034	1.068	1.097	1.099	1.153	1.090	4.0
2,3,5 Trimethylnaphthalene	0.874	0.921	0.941	0.974	1.090	0.960	8.5
Fluorene	1.210	1.217	1.293	1.318	1.437	1.295	7.1
Dibenzothiophene	1.744	1.666	1.593	1.474	1.039	1.503	18.5
Phenanthrene	2.361	2.331	2.273	2.140	1.593	2.140	14.8
Anthracene	1.561	1.679	1.780	1.706	1.214	1.588	14.1
1-Methylphenanthrene	1.078	1.088	1.139	1.120	0.930	1.071	7.7
Fluoranthene	1.516	1.562	1.696	1.739	1.483	1.599	7.0
Pyrene	1.426	1.412	1.478	1.550	1.343	1.442	5.4
Benzo(a)anthracene	1.317	1.266	1.472	1.436	1.616	1.421	9.7
Chrysene	1.822	1.562	1.599	1.590	1.501	1.615	7.6
Benzo(b)fluoranthene	1.514	1.404	1.529	1.542	1.507	1.499	3.7
Benzo(k)fluoranthene	1.607	1.501	1.664	1.669	1.781	1.644	6.2
Benzo(e)pyrene	1.411	1.251	1.313	1.316	1.331	1.324	4.3
Benzo(a)pyrene	1.308	1.173	1.306	1.322	1.377	1.297	5.8
Perylene	1.307	1.257	1.337	1.365	1.403	1.334	4.2
Indeno(1,2,3-cd)pyrene	1.215	1.111	1.265	1.338	1.424	1.271	9.4
Dibenz(a,h)anthracene	0.799	0.790	0.841	0.927	1.075	0.886	13.4
Benzo(g,h,i)perylene	1.088	1.021	1.121	1.158	1.213	1.120	6.5
Naphthalene-d8(SS)	2.052	2.013	1.797	1.994	2.047	1.981	5.3
Acenaphthene-d10(SS)	0.895	0.885	0.810	0.914	0.912	0.883	4.8
Phenanthrene-d10(SS)	0.921	0.924	0.850	0.984	1.211	0.978	14.2
Chrysene-d12(SS)	1.207	1.219	1.016	1.106	1.023	1.114	8.7
Perylene-d12(SS)	0.735	0.726	0.641	0.704	0.692	0.700	5.3

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Instrument ID: Z Calibration Date: 05/06/05 Time: 0648

Lab File ID: ZGM500 Init. Calib. Date(s): 05/06/05 05/06/05

Init. Calib. Times: 0612 0835

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.080	1.059	0.2	1.9	25.0
2-Methylnaphthalene	0.654	0.647	0.2	1.1	25.0
1-Methylnaphthalene	0.608	0.586	0.2	3.6	25.0
Biphenyl	1.662	1.590	0.2	4.3	25.0
2,6 Dimethylnaphthalene	1.136	1.100	0.2	3.2	25.0
Acenaphthylene	1.738	1.693	0.2	2.6	25.0
Acenaphthene	1.112	1.080	0.2	2.9	25.0
2,3,5 Trimethylnaphthalene	0.966	0.948	0.2	1.9	25.0
Fluorene	1.331	1.284	0.2	3.5	25.0
Dibenzothiophene	1.092	1.056	0.2	3.3	25.0
Phenanthrene	1.599	1.557	0.2	2.6	25.0
Anthracene	1.056	1.067	0.2	1.0	25.0
1-Methylphenanthrene	0.920	0.908	0.2	1.3	25.0
Fluoranthene	1.352	1.339	0.2	1.0	25.0
Pyrene	1.306	1.236	0.2	5.4	25.0
Benzo(a)anthracene	1.451	1.471	0.2	1.4	25.0
Chrysene	1.540	1.498	0.2	2.7	25.0
Benzo(b)fluoranthene	1.541	1.568	0.2	1.8	25.0
Benzo(k)fluoranthene	1.746	1.765	0.2	1.1	25.0
Benzo(e)pyrene	1.398	1.357	0.2	2.9	25.0
Benzo(a)pyrene	1.410	1.414	0.2	0.3	25.0
Perylene	1.487	1.515	0.2	1.9	25.0
Indeno(1,2,3-cd)pyrene	1.450	1.473	0.2	1.6	25.0
Dibenz(a,h)anthracene	1.111	1.134	0.2	2.1	25.0
Benzo(g,h,i)perylene	1.334	1.348	0.2	1.0	25.0
Naphthalene-d8(SS)	1.843	1.834	0.2	0.5	25.0
Acenaphthene-d10(SS)	0.839	0.834	0.2	0.6	25.0
Phenanthrene-d10(SS)	1.154	1.127	0.2	2.3	25.0
Chrysene-d12(SS)	1.068	1.080	0.2	1.1	25.0
Perylene-d12(SS)	0.789	0.842	0.2	6.7	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Instrument ID: Z Calibration Date: 05/09/05 Time: 0855

Lab File ID: ZGM500A4 Init. Calib. Date(s): 05/06/05 05/06/05

Init. Calib. Times: 0612 0835

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D	
Naphthalene	1.080	1.018	0.2	5.7	25.0	
2-Methylnaphthalene	0.654	0.618	0.2	5.5	25.0	
1-Methylnaphthalene	0.608	0.586	0.2	3.6	25.0	
Biphenyl	1.662	1.724	0.2	3.7	25.0	
2,6 Dimethylnaphthalene	1.136	1.206	0.2	6.2	25.0	
Acenaphthylene	1.738	1.730	0.2	0.5	25.0	
Acenaphthene	1.112	1.296	0.2	16.5	25.0	
2,3,5 Trimethylnaphthalene	0.966	0.971	0.2	0.5	25.0	
Fluorene	1.331	1.345	0.2	1.0	25.0	
Dibenzothiophene	1.092	1.461	0.2	33.8	25.0	<-
Phenanthrene	1.599	1.215	0.2	24.0	25.0	
Anthracene	1.056	1.265	0.2	19.8	25.0	
1-Methylphenanthrene	0.920	0.863	0.2	6.2	25.0	
Fluoranthene	1.352	1.093	0.2	19.2	25.0	
Pyrene	1.306	1.279	0.2	2.1	25.0	
Benzo(a)anthracene	1.451	1.330	0.2	8.3	25.0	
Chrysene	1.540	1.410	0.2	8.4	25.0	
Benzo(b)fluoranthene	1.541	1.475	0.2	4.3	25.0	
Benzo(k)fluoranthene	1.746	1.521	0.2	12.9	25.0	
Benzo(e)pyrene	1.398	1.216	0.2	13.0	25.0	
Benzo(a)pyrene	1.410	1.248	0.2	11.5	25.0	
Perylene	1.487	1.348	0.2	9.3	25.0	
Indeno(1,2,3-cd)pyrene	1.450	1.276	0.2	12.0	25.0	
Dibenz(a,h)anthracene	1.111	0.970	0.2	12.7	25.0	
Benzo(g,h,i)perylene	1.334	1.130	0.2	15.3	25.0	
Naphthalene-d8(SS)	1.843	1.690	0.2	8.3	25.0	
Acenaphthene-d10(SS)	0.839	0.692	0.2	17.5	25.0	
Phenanthrene-d10(SS)	1.154	1.099	0.2	4.8	25.0	
Chrysene-d12(SS)	1.068	1.121	0.2	5.0	25.0	
Perylene-d12(SS)	0.789	0.781	0.2	1.0	25.0	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Instrument ID: Z Calibration Date: 05/12/05 Time: 1439

Lab File ID: ZGP500A Init. Calib. Date(s): 05/12/05 05/12/05

Init. Calib. Times: 0803 1025

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.119	1.157	0.2	3.4	25.0
2-Methylnaphthalene	0.638	0.634	0.2	0.6	25.0
1-Methylnaphthalene	0.589	0.591	0.2	0.3	25.0
Biphenyl	1.617	1.666	0.2	3.0	25.0
2,6 Dimethylnaphthalene	1.109	1.127	0.2	1.6	25.0
Acenaphthylene	1.855	1.903	0.2	2.6	25.0
Acenaphthene	1.090	1.102	0.2	1.1	25.0
2,3,5 Trimethylnaphthalene	0.960	0.964	0.2	0.4	25.0
Fluorene	1.295	1.326	0.2	2.4	25.0
Dibenzothiophene	1.503	1.612	0.2	7.2	25.0
Phenanthrene	2.140	2.316	0.2	8.2	25.0
Anthracene	1.588	1.813	0.2	14.2	25.0
1-Methylphenanthrene	1.071	1.108	0.2	3.4	25.0
Fluoranthene	1.599	1.643	0.2	2.8	25.0
Pyrene	1.442	1.457	0.2	1.0	25.0
Benzo(a)anthracene	1.421	1.449	0.2	2.0	25.0
Chrysene	1.615	1.619	0.2	0.2	25.0
Benzo(b)fluoranthene	1.499	1.528	0.2	1.9	25.0
Benzo(k)fluoranthene	1.644	1.634	0.2	0.6	25.0
Benzo(e)pyrene	1.324	1.286	0.2	2.9	25.0
Benzo(a)pyrene	1.297	1.305	0.2	0.6	25.0
Perylene	1.334	1.315	0.2	1.4	25.0
Indeno(1,2,3-cd)pyrene	1.271	1.197	0.2	5.8	25.0
Dibenz(a,h)anthracene	0.886	0.872	0.2	1.6	25.0
Benzo(g,h,i)perylene	1.120	1.070	0.2	4.5	25.0
Naphthalene-d8(SS)	1.981	1.924	0.2	2.9	25.0
Acenaphthene-d10(SS)	0.883	0.838	0.2	5.1	25.0
Phenanthrene-d10(SS)	0.978	0.902	0.2	7.8	25.0
Chrysene-d12(SS)	1.114	1.009	0.2	9.4	25.0
Perylene-d12(SS)	0.700	0.637	0.2	9.0	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGM500 Date Analyzed: 05/06/05

Instrument ID: Z Time Analyzed: 0648

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	248881	7.51	113175	10.99	90443	12.01
	UPPER LIMIT	497762	8.01	226350	11.49	180886	12.51
	LOWER LIMIT	124440	7.01	56588	10.49	45222	11.51
	STLVT SAMPLE NO.						
01	A1LCS	207288	7.51	99535	10.99	106384	12.03
02	SBLKA1	206614	7.53	97693	10.99	100718	12.03
03	Y9LCS	214270	7.53	100598	10.99	100290	12.03
04	SBLKY9	180914	7.53	83832	10.99	96561	12.03
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGM500 Date Analyzed: 05/06/05

Instrument ID: Z Time Analyzed: 0648

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	152943	13.94	109206	19.30	67384	21.82
	UPPER LIMIT	305886	14.44	218412	19.80	134768	22.32
	LOWER LIMIT	76472	13.44	54603	18.80	33692	21.32
	STLVT SAMPLE NO.						
01	A1LCS	158798	13.94	98625	19.30	89743	21.82
02	SBLKA1	159691	13.94	90368	19.30	79300	21.82
03	Y9LCS	169762	13.94	95597	19.30	77473	21.82
04	SBLKY9	141988	13.94	74332	19.30	71111	21.82
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGM500 Date Analyzed: 05/06/05

Instrument ID: Z Time Analyzed: 0648

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	85150	21.95				
	UPPER LIMIT	170300	22.45				
	LOWER LIMIT	42575	21.45				
	STLVT SAMPLE NO.						
01	A1LCS	71199	21.95				
02	SBLKA1	57179	21.97				
03	Y9LCS	70291	21.97				
04	SBLKY9	49947	21.97				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGM500A4 Date Analyzed: 05/09/05

Instrument ID: Z Time Analyzed: 0855

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	265697	7.53	108735	11.02	104812	12.03
	UPPER LIMIT	531394	8.03	217470	11.52	209624	12.53
	LOWER LIMIT	132848	7.03	54368	10.52	52406	11.53
	STLVT SAMPLE NO.						
01	EQBLK	208064	7.53	86464	10.99	113674	12.03
02	AX-F-2-1	202694	7.53	88587	11.02	129553	12.03
03	AX-F-2-2	166031	7.53	75565	10.99	136834	12.03
04	AX-F-2-3	192803	7.53	88706	11.02	136519	12.03
05	AX-F-2DUP4	209130	7.53	95852	11.02	139669	12.03
06	AX-F-2	220060	7.53	102859	11.02	147685	12.03
07	AX-W-2-5	207172	7.53	97211	11.02	146272	12.03
08	AX-W-2-6	223516	7.53	107105	11.02	153821	12.03
09	AX-W-2-7	210599	7.53	101194	11.02	141320	12.03
10	AX-W-2-8	229998	7.53	112149	11.02	147696	12.03
11	AX-F-1-1	205235	7.53	103373	11.02	150284	12.03
12	AX-F-1-3	226228	7.53	110484	11.02	157543	12.03
13	AX-F-1-4	235929	7.53	119055	11.02	158896	12.03
14	AX-W-1-5	204254	7.53	105600	11.02	154710	12.03
15	AX-W-1-6	204371	7.53	101936	11.02	160651	12.03
16	AX-W-1-8	229205	7.53	114186	11.02	173737	12.03
17	AX-W-1DUP3	136086	7.53	95431	11.02	157433	12.03
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22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGM500A4 Date Analyzed: 05/09/05

Instrument ID: Z Time Analyzed: 0855

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	172827	13.94	132067	19.30	78529	21.83
	UPPER LIMIT	345654	14.44	264134	19.80	157058	22.33
	LOWER LIMIT	86414	13.44	66034	18.80	39264	21.33
	STLVT SAMPLE NO.						
01	EQBLK	158146	13.94	85395	19.29	75179	21.83
02	AX-F-2-1	160686	13.94	101529	19.30	99970	21.83
03	AX-F-2-2	135703	13.94	82749	19.30	94228	21.83
04	AX-F-2-3	159623	13.94	98676	19.30	93492	21.83
05	AX-F-2DUP4	169531	13.94	107734	19.30	96289	21.83
06	AX-F-2	165748	13.94	106350	19.30	97340	21.83
07	AX-W-2-5	159742	13.94	104454	19.30	95909	21.83
08	AX-W-2-6	169514	13.94	106934	19.30	95272	21.83
09	AX-W-2-7	150250	13.94	92957	19.30	83381	21.83
10	AX-W-2-8	150748	13.94	99088	19.30	84918	21.83
11	AX-F-1-1	141642	13.94	94972	19.31	86068	21.83
12	AX-F-1-3	149922	13.94	99461	19.31	92906	21.83
13	AX-F-1-4	156641	13.94	106969	19.30	95693	21.83
14	AX-W-1-5	139117	13.94	98011	19.30	87884	21.83
15	AX-W-1-6	133878	13.94	88736	19.30	86836	21.83
16	AX-W-1-8	150888	13.94	100334	19.30	89866	21.83
17	AX-W-1DUP3	138529	13.94	93256	19.30	80571	21.83
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGM500A4 Date Analyzed: 05/09/05

Instrument ID: Z Time Analyzed: 0855

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	91994	21.97				
	UPPER LIMIT	183988	22.47				
	LOWER LIMIT	45997	21.47				
	STLVT SAMPLE NO.						
01	EQBLK	67208	21.97				
02	AX-F-2-1	70178	21.97				
03	AX-F-2-2	57676	21.97				
04	AX-F-2-3	64340	21.97				
05	AX-F-2DUP4	68846	21.97				
06	AX-F-2	57360	21.97				
07	AX-W-2-5	68505	21.97				
08	AX-W-2-6	60420	21.97				
09	AX-W-2-7	61657	21.97				
10	AX-W-2-8	63448	21.99				
11	AX-F-1-1	66655	21.99				
12	AX-F-1-3	62629	21.99				
13	AX-F-1-4	70811	21.99				
14	AX-W-1-5	66927	21.99				
15	AX-W-1-6	60139	21.99				
16	AX-W-1-8	64530	21.99				
17	AX-W-1DUP3	56646	21.99				
18							
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22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGP500A Date Analyzed: 05/12/05

Instrument ID: Z Time Analyzed: 1439

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	94913	7.42	41334	10.88	32880	11.89
	UPPER LIMIT	189826	7.92	82668	11.38	65760	12.39
	LOWER LIMIT	47456	6.92	20667	10.38	16440	11.39
	STLVT SAMPLE NO.						
01	AX-F-2MS	61487	7.42	29520	10.88	33950	11.89
02	AX-F-2MSD	64040	7.40	30290	10.88	43778	11.89
03	AX-W-1	62012	7.40	30143	10.88	45045	11.89
04	AX-W-1MS	56965	7.42	28468	10.88	49386	11.89
05	AX-W-1MSD	69808	7.40	34087	10.88	45837	11.89
06	AX-F-2-4	67576	7.40	33000	10.88	43811	11.89
07	AX-F-1-2	90056	7.40	42999	10.88	39875	11.89
08	AX-W-1-7	56523	7.40	26863	10.88	47112	11.89
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGP500A Date Analyzed: 05/12/05

Instrument ID: Z Time Analyzed: 1439

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	44508	13.83	36505	19.16	24119	21.70
	UPPER LIMIT	89016	14.33	73010	19.66	48238	22.20
	LOWER LIMIT	22254	13.33	18252	18.66	12060	21.20
	STLVT SAMPLE NO.						
01	AX-F-2MS	32910	13.83	24280	19.16	25353	21.70
02	AX-F-2MSD	30982	13.83	25202	19.16	29150	21.70
03	AX-W-1	31313	13.83	25240	19.16	27492	21.70
04	AX-W-1MS	29737	13.83	21089	19.15	31493	21.70
05	AX-W-1MSD	35392	13.83	27970	19.16	27705	21.70
06	AX-F-2-4	33517	13.83	25864	19.16	26169	21.70
07	AX-F-1-2	45093	13.83	32987	19.16	23950	21.70
08	AX-W-1-7	27994	13.83	20640	19.16	26326	21.70
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106714

Lab File ID (Standard): ZGP500A Date Analyzed: 05/12/05

Instrument ID: Z Time Analyzed: 1439

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	23045	21.83				
	UPPER LIMIT	46090	22.33				
	LOWER LIMIT	11522	21.33				
	STLVT SAMPLE NO.						
01	AX-F-2MS	16835	21.83				
02	AX-F-2MSD	13298	21.83				
03	AX-W-1	14714	21.83				
04	AX-W-1MS	12876	21.83				
05	AX-W-1MSD	15231	21.83				
06	AX-F-2-4	15404	21.83				
07	AX-F-1-2	18480	21.83				
08	AX-W-1-7	11638	21.83				
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

STL Burlington
Colchester, Vermont

Sample Data Summary Package

SDG: 106716

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

May 20, 2005

Mr. Paul Sklar
URS Corporation
10200 Innovation Dr.
Suite 500
Milwaukee, WI 53226

Re: Laboratory Project No. 25000
Case: 25000; SDG: 106716

Dear Mr. Sklar:

Enclosed are the analytical results for samples received by STL Burlington on April 23, 2005. This report is sequentially numbered starting with page 0001 and ending with page 0579. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/23/05	ETR No: 106716	
616874	NS-TA-OMORDAX-W-3-9	04/21/05	Tissue
616875	NS-TA-OMORDAX-W-3-10	04/21/05	Tissue
616876	NS-TA-OMORDAX-W-3-11	04/21/05	Tissue
616877	NS-TA-OMORDAX-W-3-12	04/21/05	Tissue
616878	NS-TA-OMORDAX-W-3-13	04/21/05	Tissue
616879	NS-TA-OMORDAX-W-3-14	04/21/05	Tissue
616880	NS-TA-OMORDAX-W-3-15	04/21/05	Tissue
616881	NS-TA-OMORDAX-W-3-16	04/21/05	Tissue
616882	NS-TA-OMORDAX-W-3DUP2	04/21/05	Tissue
616883	NS-TA-OMORDAX-W-3	04/21/05	Tissue
616883MS	NS-TA-OMORDAX-W-3MS	04/21/05	Tissue
616883MD	NS-TA-OMORDAX-W-3MSD	04/21/05	Tissue
616883DP	NS-TA-OMORDAX-W-3REP	04/21/05	Tissue
616884	NS-TA-OMORDAX-F-3-1	04/21/05	Tissue
616885	NS-TA-OMORDAX-F-3-2	04/21/05	Tissue
616886	NS-TA-OMORDAX-F-3-3	04/21/05	Tissue
616887	NS-TA-OMORDAX-F-3-4	04/21/05	Tissue
616888	NS-TA-OMORDAX-F-3-5	04/21/05	Tissue
616889	NS-TA-OMORDAX-F-3-6	04/21/05	Tissue
616890	NS-TA-OMORDAX-F-3-7	04/21/05	Tissue
616891	NS-TA-OMORDAX-F-3-8	04/21/05	Tissue
616892	NS-TA-OMORDAX-F-3DUP1	04/21/05	Tissue
616893	NS-TA-OMORDAX-F-3	04/21/05	Tissue
616893MS	NS-TA-OMORDAX-F-3MS	04/21/05	Tissue
616893MD	NS-TA-OMORDAX-F-3MSD	04/21/05	Tissue

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/23/05 ETR No: 106716 (cont.)		
616893DP	NS-TA-OMORDAX-F-3REP	04/21/05	Tissue
616894	EQBLK		Water

Documentation of the condition of the samples at the time their receipt and any exceptions to the laboratory's Sample Acceptance Policy is included in the Sample Handling section of this submittal.

Please note that the results for the samples in this delivery group are reported on a wet weight basis.

An equipment blank was generated at the time of tissue preparation/homogenization. This equipment blank was carried through the analytical process and the results reported on the same weight/weight basis as the samples. The analysis of the equipment blank was free of contamination.

The PAH analyses of the matrix spikes associated with samples NS-TA-OMORDAX-W-3 and NS-TA-OMORDAX-F-3 yielded percent recoveries for select target analytes that were outside control criteria. The associated blank spike analysis exhibited acceptable recoveries for all compounds.

The analytical results presented in this data report were generated under a quality system that adheres to the requirements specified in the NELAC standard. This report shall not be reproduced, except in full, without the written approval of the laboratory. The release of the data in this report is authorized by the Laboratory Director or his designee, as verified by the following signature.

If there are any questions regarding this submittal, please contact Don Dawicki at (802) 655-1203.

Sincerely,

Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SEVERN TRENT STL

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: URS Corp
Address: 10200 Innovation Dr. Ste 500
Milwaukee, WI 53226
Contact: Paul Sklar
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote:

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: Ashland / NSP Lakefront Site

ANALYSIS REQUESTED: SIM PAH; Lipids; Solids

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No/Type of Containers[2] VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	Lipids	Solids	Lab/Sample ID (Lab Use Only)
TA	4/21	0240			NS-TA-Omnidax-W-3-9				1	X	X	X	
		0250			NS-TA-Omnidax-W-3-10				1	X	X	X	
		0300			NS-TA-Omnidax-W-3-11				1	X	X	X	
		0310			NS-TA-Omnidax-W-3-12 MS				1	X	X	X	
		0320			NS-TA-Omnidax-W-3-13				1	X	X	X	
		0330			NS-TA-Omnidax-W-3-14				1	X	X	X	
		0340			NS-TA-Omnidax-W-3-15				1	X	X	X	
		0350			NS-TA-Omnidax-W-3-16				1	X	X	X	
		0400			NS-TA-Omnidax-W-3-Dup2				1	X	X	X	
		0410			NS-TA-Omnidax-W-3-MSMSD				1	X	X	X	Collected From AOC

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	4/22/05	1330	[illegible]	4/23/05	1000
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vac Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: URS Corp
Address: 10200 Innovation Dr Ste. 500 Milwaukee WI 53226
Contact: Paul Sklar
Phone: 414-931-4100
Fax: 414-931-4101
Contract/ Quote:

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:

Lab Use Only Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Beaver
Sampler's Signature: Brian Beaver

Proj. No.: 25688375
Project Name: Ashland/NSP Lakefront Site

ANALYSIS REQUESTED: STM PAH; Lipids; % Solids

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No/Type of Containers[2] VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	Lipids	% Solids	Lab/Sample ID (Lab Use Only)
TA	4/21	0100			NS-TA-Omnidex-F-3-1				1	X	X	X	
		0110			NS-TA-Omnidex-F-3-2				1	X	X	X	
		0120			NS-TA-Omnidex-F-3-3				1	X	X	X	
		0130			NS-TA-Omnidex-F-3-4				1	X	X	X	
		0140			NS-TA-Omnidex-F-3-5				1	X	X	X	
		0150			NS-TA-Omnidex-F-3-6				1	X	X	X	
		0200			NS-TA-Omnidex-F-3-7				1	X	X	X	
		0210			NS-TA-Omnidex-F-3-8				1	X	X	X	
		0220			NS-TA-Omnidex-F-3-Dup 1				1	X	X	X	
		0230			NS-TA-Omnidex-F-3-MS/MSD				1	X	X	X	collected @ AOC

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Beaver	4/22/04	13:30	Jon Nash	4/23/05	1000
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Zip. Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-9

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616874

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.4	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-10

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616875

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 24.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		24.2	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-11

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616876

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.8	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-12

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616877

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.3	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-13

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616878

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 24.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		24.0	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-14

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616879

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 24.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		24.4	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-15

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616880

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 24.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		24.3	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-16

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616881

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 21.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		21.8	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3DU

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616882

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.9	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616883

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.6	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3RE

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616883DP

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	04/28/05	N/A	%	23.6		23.6		0

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3-1

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616884

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.4	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3-2

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616885

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.3	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-3

Lab Name: STL BURLINGTON

Contract: 80518 Amnd.

SDG No.: 106716

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 616886

Matrix: TISSUE

Client: URSCO9

Date Received: 04/23/05

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.8	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3-4

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616887

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 23.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		23.2	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3-5

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616888

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.0	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3-6

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616889

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.6	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3-7

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616890

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.7	

Printed on: 05/03/05 02:58 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3-8

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616891

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.2	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3DU

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616892

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.1	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3

Lab Name: STL BURLINGTON

Contract: 80518 Amnd.

SDG No.: 106716

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 616893

Matrix: TISSUE

Client: URSCO9

Date Received: 04/23/05

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	04/28/05	N/A	%	1.0		22.0	

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WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-F-3REP

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616893DP

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids: 21.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	04/28/05	N/A	%	22.0		21.5		2

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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Geotechnical Analysis
Sample Data Summary Package

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-3-9

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616874

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	2.4	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-10

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616875

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	3.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-3-11

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616876

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	3.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-3-12

Lab Name: STL BURLINGTON | **Contract:** 80518 Amnd. | **SDG No.:** 106716

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 616877

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	3.3	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-3-13

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616878

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	3.6	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-3-14

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616879

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	4.0	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-15

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616880

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	4.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3-16

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616881

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	1.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-3DU

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616882

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	2.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-W-3

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616883

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	3.3	

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GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
NS-TA-OMORDAX-W-3RE

Lab Name: STL BURLINGTON
Contract: 80518 Amnd.
SDG No.: 106716

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 616883DP

Matrix: TISSUE
Client: URSCO9
Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	04/30/05		%	3.3		3.3		0

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-1

Lab Name: STL BURLINGTON | **Contract:** 80518 Amnd. | **SDG No.:** 106716

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 616884

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	2.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-2

Lab Name: STL BURLINGTON | **Contract:** 80518 Amnd. | **SDG No.:** 106716

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 616885

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	1.8	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-3

Lab Name: STL BURLINGTON | **Contract:** 80518 Amnd. | **SDG No.:** 106716

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 616886

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	2.4	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-4

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616887

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	2.4	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-5

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616888

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	1.9	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-6

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616889

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	2.2	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-7

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616890

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	2.0	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3-8

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616891

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	1.5	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3DU

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616892

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	1.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616893

Matrix: TISSUE | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	1.3	

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GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

NS-TA-OMORDAX-F-3RE

Lab Name: STL BURLINGTON | **Contract:** 80518 Amnd. | **SDG No.:** 106716

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 616893DP

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	04/30/05		%	1.3		1.7		27

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EQBLK

Lab Name: STL BURLINGTON | Contract: 80518 Amnd. | SDG No.: 106716

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 616894

Matrix: WATER | Client: URSCO9 | Date Received: 04/23/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	04/30/05		%	1	0.1	0.1	U

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Percent Lipids Calculations

Date: 4/30/2005 **Analyst:** JFF

Time: 0006 **ETR(s):** 106716

Client: URSC09

Sample ID	Sample Weight (g)	Dish (g)	Dish/Residue (g)	Extract Final Volume (mLs)	Aliquot Used in Determination (mLs)	% Lipids
SBLKZ1	40.00	0.9638	0.9630	10	1	< 0.1
LCSZ1	40.00	0.9650	0.9640	10	1	< 0.1
616874	40.01	0.9714	1.0659	10	1	2.4
616875	40.00	0.9701	1.1178	10	1	3.7
616876	40.04	0.9738	1.1207	10	1	3.7
616877	40.00	0.9680	1.0993	10	1	3.3
616878	40.00	0.9683	1.1125	10	1	3.6
616879	40.00	0.9674	1.1261	10	1	4.0
616880	40.04	0.9676	1.1543	10	1	4.7
616881	40.00	0.9691	1.0354	10	1	1.7
616882	40.00	0.9695	1.0774	10	1	2.7
616883	40.00	0.9717	1.1032	10	1	3.3
616883DP	40.04	0.9683	1.0991	10	1	3.3
616884	39.98	0.9663	1.0513	10	1	2.1
616885	40.00	0.9675	1.0379	10	1	1.8
616886	40.00	0.9634	1.0607	10	1	2.4
616887	40.02	0.9639	1.0611	10	1	2.4
616888	40.00	0.9673	1.0440	10	1	1.9
616889	40.00	0.9696	1.0590	10	1	2.2
616890	40.00	0.9672	1.0479	10	1	2.0
616891	40.00	0.9669	1.0270	10	1	1.5
616892	40.02	0.9675	1.0371	10	1	1.7
616893	40.00	0.9666	1.0168	10	1	1.3
616893DP	40.00	0.9663	1.0353	10	1	1.7
616894	*40.00*	*0.9614*	*0.9612*	*10*	*1*	*< 0.1*
						#DIV/0!

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SAMPLE DATA SUMMARY PACKAGE

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616893

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616893

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted:04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	81	
91-57-6	2-Methylnaphthalene	77	
90-12-0	1-Methylnaphthalene	70	
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	24	
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	55	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	26	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	51	
120-12-7	Anthracene	11	
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	21	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616884

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616884

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	66	
91-57-6	2-Methylnaphthalene	90	
90-12-0	1-Methylnaphthalene	92	
92-52-4	Biphenyl	9.4	
581-42-0	2,6 Dimethylnaphthalene	23	
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	65	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	28	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	51	
120-12-7	Anthracene	11	
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	19	
129-00-0	Pyrene	14	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

AX-F-3-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616885

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616885

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/16/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	100	
91-57-6	2-Methylnaphthalene	88	
90-12-0	1-Methylnaphthalene	85	
92-52-4	Biphenyl	9.7	
581-42-0	2,6 Dimethylnaphthalene	32	
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	77	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	32	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	61	
120-12-7	Anthracene	12	
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	22	
129-00-0	Pyrene	15	
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616886

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616886

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	61	
91-57-6	2-Methylnaphthalene	50	
90-12-0	1-Methylnaphthalene	50	
92-52-4	Biphenyl	8.7	U
581-42-0	2,6 Dimethylnaphthalene	17	
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	43	
2245-38-7	2,3,5 Trimethylnaphthalene	8.7	U
86-73-7	Fluorene	18	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	34	
120-12-7	Anthracene	8.7	U
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	8.7	U
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616887

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616887

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	90	
91-57-6	2-Methylnaphthalene	84	
90-12-0	1-Methylnaphthalene	85	
92-52-4	Biphenyl	9.5	
581-42-0	2,6 Dimethylnaphthalene	30	
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	72	
2245-38-7	2,3,5 Trimethylnaphthalene	8.8	
86-73-7	Fluorene	30	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	60	
120-12-7	Anthracene	13	
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	21	
129-00-0	Pyrene	15	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616888

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616888

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/16/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	68	
91-57-6	2-Methylnaphthalene	56	
90-12-0	1-Methylnaphthalene	55	
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	20	
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	47	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	20	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	69	
120-12-7	Anthracene	19	
832-69-9	1-Methylphenanthrene	9.3	
206-44-0	Fluoranthene	140	
129-00-0	Pyrene	120	
56-55-3	Benzo(a)anthracene	76	
218-01-9	Chrysene	78	
205-99-2	Benzo(b)fluoranthene	88	
207-08-9	Benzo(k)fluoranthene	75	
192-97-2	Benzo(e)pyrene	45	
50-32-8	Benzo(a)pyrene	69	
198-55-0	Perylene	19	
193-39-5	Indeno(1,2,3-cd)pyrene	35	
53-70-3	Dibenz(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	34	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

AX-F-3-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616889

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616889

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	100	
90-12-0	1-Methylnaphthalene	140	
92-52-4	Biphenyl	14	
581-42-0	2,6 Dimethylnaphthalene	46	
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	120	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	45	
132-65-0	Dibenzothiophene	12	
85-01-8	Phenanthrene	78	
120-12-7	Anthracene	22	
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	28	
129-00-0	Pyrene	23	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616890

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616890

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted:04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	89	
91-57-6	2-Methylnaphthalene	79	
90-12-0	1-Methylnaphthalene	81	
92-52-4	Biphenyl	9.4	
581-42-0	2,6 Dimethylnaphthalene	29	
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	69	
2245-38-7	2,3,5 Trimethylnaphthalene	9.7	
86-73-7	Fluorene	29	
132-65-0	Dibenzothiophene	8.7	U
85-01-8	Phenanthrene	57	
120-12-7	Anthracene	13	
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	19	
129-00-0	Pyrene	14	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

AX-F-3-8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616891

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616891

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	63	
91-57-6	2-Methylnaphthalene	57	
90-12-0	1-Methylnaphthalene	55	
92-52-4	Biphenyl	9.1	U
581-42-0	2,6 Dimethylnaphthalene	20	
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	44	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	18	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	41	
120-12-7	Anthracene	9.3	
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	25	
129-00-0	Pyrene	20	
56-55-3	Benzo(a)anthracene	9.5	
218-01-9	Chrysene	12	
205-99-2	Benzo(b)fluoranthene	16	
207-08-9	Benzo(k)fluoranthene	12	
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	11	
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3DUP1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616892

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616892

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	89	
91-57-6	2-Methylnaphthalene	82	
90-12-0	1-Methylnaphthalene	85	
92-52-4	Biphenyl	9.4	
581-42-0	2,6 Dimethylnaphthalene	27	
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	66	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	28	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	57	
120-12-7	Anthracene	14	
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	21	
129-00-0	Pyrene	15	
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616883

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616883

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted:04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	100	
90-12-0	1-Methylnaphthalene	100	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	40	
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	91	
2245-38-7	2,3,5 Trimethylnaphthalene	12	
86-73-7	Fluorene	39	
132-65-0	Dibenzothiophene	11	
85-01-8	Phenanthrene	78	
120-12-7	Anthracene	18	
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	27	
129-00-0	Pyrene	20	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-10

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616875

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616875

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/12/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	91	
90-12-0	1-Methylnaphthalene	95	
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	36	
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	94	
2245-38-7	2,3,5 Trimethylnaphthalene	8.8	
86-73-7	Fluorene	32	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	62	
120-12-7	Anthracene	9.8	
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	22	
129-00-0	Pyrene	14	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-11

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616876

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616876

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	110	
91-57-6	2-Methylnaphthalene	92	
90-12-0	1-Methylnaphthalene	95	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	35	
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	94	
2245-38-7	2,3,5 Trimethylnaphthalene	8.9	
86-73-7	Fluorene	32	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	62	
120-12-7	Anthracene	9.8	
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	23	
129-00-0	Pyrene	14	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-12

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616877

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616877

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 77 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	99	
90-12-0	1-Methylnaphthalene	96	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	34	
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	72	
2245-38-7	2,3,5 Trimethylnaphthalene	11	
86-73-7	Fluorene	34	
132-65-0	Dibenzothiophene	10	
85-01-8	Phenanthrene	54	
120-12-7	Anthracene	15	
832-69-9	1-Methylphenanthrene	8.7	U
206-44-0	Fluoranthene	27	
129-00-0	Pyrene	17	
56-55-3	Benzo(a)anthracene	8.7	U
218-01-9	Chrysene	8.7	U
205-99-2	Benzo(b)fluoranthene	8.7	U
207-08-9	Benzo(k)fluoranthene	8.7	U
192-97-2	Benzo(e)pyrene	8.7	U
50-32-8	Benzo(a)pyrene	8.7	U
198-55-0	Perylene	8.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.7	U
53-70-3	Dibenz(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	8.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-13

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616878

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616878

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	75	
91-57-6	2-Methylnaphthalene	58	
90-12-0	1-Methylnaphthalene	60	
92-52-4	Biphenyl	8.3	U
581-42-0	2,6 Dimethylnaphthalene	23	
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	57	
2245-38-7	2,3,5 Trimethylnaphthalene	8.3	U
86-73-7	Fluorene	22	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	35	
120-12-7	Anthracene	8.3	U
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	9.3	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-14

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616879

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616879

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted:04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/13/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	73	
91-57-6	2-Methylnaphthalene	63	
90-12-0	1-Methylnaphthalene	66	
92-52-4	Biphenyl	8.3	U
581-42-0	2,6 Dimethylnaphthalene	22	
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	59	
2245-38-7	2,3,5 Trimethylnaphthalene	8.3	U
86-73-7	Fluorene	22	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	34	
120-12-7	Anthracene	8.3	U
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	8.3	U
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-15

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616880

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616880

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	87	
91-57-6	2-Methylnaphthalene	80	
90-12-0	1-Methylnaphthalene	77	
92-52-4	Biphenyl	8.3	J
581-42-0	2,6 Dimethylnaphthalene	24	
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	52	
2245-38-7	2,3,5 Trimethylnaphthalene	9.4	
86-73-7	Fluorene	26	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	37	
120-12-7	Anthracene	9.9	
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	18	
129-00-0	Pyrene	9.3	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-16

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616881

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616881

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/13/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	98	
91-57-6	2-Methylnaphthalene	81	
90-12-0	1-Methylnaphthalene	79	
92-52-4	Biphenyl	9.6	
581-42-0	2,6 Dimethylnaphthalene	33	
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	83	
2245-38-7	2,3,5 Trimethylnaphthalene	9.1	U
86-73-7	Fluorene	28	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	56	
120-12-7	Anthracene	12	
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	49	
129-00-0	Pyrene	43	
56-55-3	Benzo(a)anthracene	19	
218-01-9	Chrysene	24	
205-99-2	Benzo(b)fluoranthene	17	
207-08-9	Benzo(k)fluoranthene	18	
192-97-2	Benzo(e)pyrene	12	
50-32-8	Benzo(a)pyrene	17	
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3-9

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616874

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616874

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	110	
90-12-0	1-Methylnaphthalene	110	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	39	
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	100	
2245-38-7	2,3,5 Trimethylnaphthalene	9.7	
86-73-7	Fluorene	38	
132-65-0	Dibenzothiophene	9.1	U
85-01-8	Phenanthrene	71	
120-12-7	Anthracene	11	
832-69-9	1-Methylphenanthrene	9.1	U
206-44-0	Fluoranthene	25	
129-00-0	Pyrene	17	
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
192-97-2	Benzo(e)pyrene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
198-55-0	Perylene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenz(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3DUP2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616882

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616882

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/13/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	110	
91-57-6	2-Methylnaphthalene	100	
90-12-0	1-Methylnaphthalene	100	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	37	
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	100	
2245-38-7	2,3,5 Trimethylnaphthalene	9.4	
86-73-7	Fluorene	36	
132-65-0	Dibenzothiophene	8.3	U
85-01-8	Phenanthrene	64	
120-12-7	Anthracene	11	
832-69-9	1-Methylphenanthrene	8.3	U
206-44-0	Fluoranthene	24	
129-00-0	Pyrene	15	
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
192-97-2	Benzo(e)pyrene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
198-55-0	Perylene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenz(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

EQBLK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616894

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616894

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/12/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKZ1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: SBLKZ1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0429Z1

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
132-65-0	Dibenzothiophene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616893MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616893M

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	120	
90-12-0	1-Methylnaphthalene	120	
92-52-4	Biphenyl	49	
581-42-0	2,6 Dimethylnaphthalene	63	
208-96-8	Acenaphthylene	54	
83-32-9	Acenaphthene	84	
2245-38-7	2,3,5 Trimethylnaphthalene	61	
86-73-7	Fluorene	67	
132-65-0	Dibenzothiophene	74	
85-01-8	Phenanthrene	80	
120-12-7	Anthracene	78	
832-69-9	1-Methylphenanthrene	61	
206-44-0	Fluoranthene	73	
129-00-0	Pyrene	57	
56-55-3	Benzo(a)anthracene	55	
218-01-9	Chrysene	51	
205-99-2	Benzo(b)fluoranthene	75	
207-08-9	Benzo(k)fluoranthene	45	
192-97-2	Benzo(e)pyrene	42	
50-32-8	Benzo(a)pyrene	47	
198-55-0	Perylene	44	
193-39-5	Indeno(1,2,3-cd)pyrene	39	
53-70-3	Dibenz(a,h)anthracene	39	
191-24-2	Benzo(g,h,i)perylene	34	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-F-3MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616893MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616893S

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 78 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	120	
91-57-6	2-Methylnaphthalene	130	
90-12-0	1-Methylnaphthalene	120	
92-52-4	Biphenyl	50	
581-42-0	2,6 Dimethylnaphthalene	63	
208-96-8	Acenaphthylene	55	
83-32-9	Acenaphthene	87	
2245-38-7	2,3,5 Trimethylnaphthalene	62	
86-73-7	Fluorene	69	
132-65-0	Dibenzothiophene	74	
85-01-8	Phenanthrene	80	
120-12-7	Anthracene	77	
832-69-9	1-Methylphenanthrene	61	
206-44-0	Fluoranthene	67	
129-00-0	Pyrene	61	
56-55-3	Benzo(a)anthracene	56	
218-01-9	Chrysene	54	
205-99-2	Benzo(b)fluoranthene	69	
207-08-9	Benzo(k)fluoranthene	53	
192-97-2	Benzo(e)pyrene	43	
50-32-8	Benzo(a)pyrene	47	
198-55-0	Perylene	46	
193-39-5	Indeno(1,2,3-cd)pyrene	40	
53-70-3	Dibenz(a,h)anthracene	35	
191-24-2	Benzo(g,h,i)perylene	34	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616883MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616883M

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 05/16/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	160	
91-57-6	2-Methylnaphthalene	140	
90-12-0	1-Methylnaphthalene	140	
92-52-4	Biphenyl	53	
581-42-0	2,6 Dimethylnaphthalene	81	
208-96-8	Acenaphthylene	57	
83-32-9	Acenaphthene	130	
2245-38-7	2,3,5 Trimethylnaphthalene	61	
86-73-7	Fluorene	82	
132-65-0	Dibenzothiophene	64	
85-01-8	Phenanthrene	120	
120-12-7	Anthracene	82	
832-69-9	1-Methylphenanthrene	57	
206-44-0	Fluoranthene	73	
129-00-0	Pyrene	69	
56-55-3	Benzo(a)anthracene	56	
218-01-9	Chrysene	52	
205-99-2	Benzo(b)fluoranthene	96	
207-08-9	Benzo(k)fluoranthene	44	
192-97-2	Benzo(e)pyrene	44	
50-32-8	Benzo(a)pyrene	46	
198-55-0	Perylene	46	
193-39-5	Indeno(1,2,3-cd)pyrene	47	
53-70-3	Dibenz(a,h)anthracene	42	
191-24-2	Benzo(g,h,i)perylene	44	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

AX-W-3MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: 616883MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 616883S

Level: (low/med) LOW Date Received: 04/23/05

% Moisture: 76 decanted: (Y/N) N Date Extracted: 04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/16/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	160	
91-57-6	2-Methylnaphthalene	140	
90-12-0	1-Methylnaphthalene	140	
92-52-4	Biphenyl	53	
581-42-0	2,6 Dimethylnaphthalene	81	
208-96-8	Acenaphthylene	56	
83-32-9	Acenaphthene	130	
2245-38-7	2,3,5 Trimethylnaphthalene	60	
86-73-7	Fluorene	82	
132-65-0	Dibenzothiophene	65	
85-01-8	Phenanthrene	120	
120-12-7	Anthracene	90	
832-69-9	1-Methylphenanthrene	58	
206-44-0	Fluoranthene	73	
129-00-0	Pyrene	68	
56-55-3	Benzo(a)anthracene	55	
218-01-9	Chrysene	51	
205-99-2	Benzo(b)fluoranthene	86	
207-08-9	Benzo(k)fluoranthene	44	
192-97-2	Benzo(e)pyrene	44	
50-32-8	Benzo(a)pyrene	44	
198-55-0	Perylene	45	
193-39-5	Indeno(1,2,3-cd)pyrene	45	
53-70-3	Dibenz(a,h)anthracene	40	
191-24-2	Benzo(g,h,i)perylene	41	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Z1LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix: (soil/water) SOIL Lab Sample ID: Z1LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0429Z1

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:04/29/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/09/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	12	
90-12-0	1-Methylnaphthalene	12	
92-52-4	Biphenyl	12	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	11	
2245-38-7	2,3,5 Trimethylnaphthalene	11	
86-73-7	Fluorene	11	
132-65-0	Dibenzothiophene	13	
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	12	
832-69-9	1-Methylphenanthrene	12	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	12	
205-99-2	Benzo(b)fluoranthene	12	
207-08-9	Benzo(k)fluoranthene	13	
192-97-2	Benzo(e)pyrene	13	
50-32-8	Benzo(a)pyrene	13	
198-55-0	Perylene	12	
193-39-5	Indeno(1,2,3-cd)pyrene	12	
53-70-3	Dibenz(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	12	

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Level: (low/med) LOW

	STLVT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	Z1LCS	76	82	71	69	83				0
02	SBLKZ1	77	80	89	71	78				0
03	EQBLK	72	73	76	68	75				0
04	AX-W-3-9	26	33	32	45	47				0
05	AX-W-3-10	52	56	54	71	67				0
06	AX-W-3-11	44	51	49	70	64				0
07	AX-W-3-13	47	51	50	71	62				0
08	AX-W-3-14	39	51	51	87	66				0
09	AX-W-3-16	32	34	35	60	53				0
10	AX-W-3DUP2	33	40	42	71	60				0
11	AX-F-3-1	23	53	58	58	54				0
12	AX-W-3	70	86	76	76	76				0
13	AX-W-3MS	56	69	64	62	61				0
14	AX-W-3MSD	69	82	75	73	65				0
15	AX-F-3-2	55	67	63	67	60				0
16	AX-F-3-3	56	73	66	72	66				0
17	AX-F-3-4	53	72	64	67	61				0
18	AX-F-3-5	52	68	62	63	54				0
19	AX-F-3-6	61	87	76	71	66				0
20	AX-F-3-7	58	78	68	65	58				0
21	AX-F-3-8	56	80	69	72	66				0
22	AX-F-3DUP1	40	62	55	56	46				0
23	AX-F-3	31	45	38	42	35				0
24	AX-F-3MS	48	71	65	62	51				0
25	AX-F-3MSD	53	80	74	62	50				0
26	AX-W-3-12	71	94	88	79	70				0
27	AX-W-3-15	58	96	93	93	67				0
28										
29										
30										

		QC LIMITS
S1	= Naphthalene-d8 (SS)	(20-130)
S2	= Acenaphthene-d10 (SS)	(20-130)
S3	= Phenanthrene-d10 (SS)	(20-130)
S4	= Chrysene-d12 (SS)	(20-130)
S5	= Perylene-d12 (SS)	(20-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKZ1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID: B0429Z1 Lab Sample ID: SBLKZ1

Instrument ID: Z Date Extracted: 04/29/05

Matrix: (soil/water) SOIL Date Analyzed: 05/09/05

Level:(low/med) LOW Time Analyzed: 1020

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	Z1LCS	Z1LCS	Q0429Z1	05/09/05
02	EQBLK	616894	616894	05/12/05
03	AX-W-3-9	616874	616874	05/12/05
04	AX-W-3-10	616875	616875	05/12/05
05	AX-W-3-11	616876	616876	05/12/05
06	AX-W-3-13	616878	616878	05/12/05
07	AX-W-3-14	616879	616879	05/13/05
08	AX-W-3-16	616881	616881	05/13/05
09	AX-W-3DUP2	616882	616882	05/13/05
10	AX-F-3-1	616884	616884	05/16/05
11	AX-W-3	616883	616883	05/16/05
12	AX-W-3MS	616883MS	616883M	05/16/05
13	AX-W-3MSD	616883MD	616883S	05/16/05
14	AX-F-3-2	616885	616885	05/16/05
15	AX-F-3-3	616886	616886	05/16/05
16	AX-F-3-4	616887	616887	05/16/05
17	AX-F-3-5	616888	616888	05/16/05
18	AX-F-3-6	616889	616889	05/16/05
19	AX-F-3-7	616890	616890	05/16/05
20	AX-F-3-8	616891	616891	05/16/05
21	AX-F-3DUP1	616892	616892	05/16/05
22	AX-F-3	616893	616893	05/16/05
23	AX-F-3MS	616893MS	616893M	05/16/05
24	AX-F-3MSD	616893MD	616893S	05/16/05
25	AX-W-3-12	616877	616877	05/16/05
26	AX-W-3-15	616880	616880	05/16/05
27				
28				
29				
30				

COMMENTS:

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix Spike - URSCO9 Sample No.: AX-F-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	45	81	120	87	60-140
2-Methylnaphthalene	45	77	120	96	60-140
1-Methylnaphthalene	45	70	120	111	60-140
Biphenyl	45	0.0	49	109	60-140
2,6 Dimethylnaphthalene	45	24	63	87	60-140
Acenaphthylene	45	0.0	54	120	60-140
Acenaphthene	45	55	84	64	60-140
2,3,5 Trimethylnaphthal	45	0.0	61	136	60-140
Fluorene	45	26	67	91	60-140
Dibenzothiophene	45	0.0	74	164*	60-140
Phenanthrene	45	51	80	64	60-140
Anthracene	45	11	78	149*	60-140
1-Methylphenanthrene	45	0.0	61	136	60-140
Fluoranthene	45	21	73	116	60-140
Pyrene	45	11	57	102	60-140
Benzo(a)anthracene	45	0.0	55	122	60-140
Chrysene	45	0.0	51	113	60-140
Benzo(b)fluoranthene	45	0.0	75	167*	60-140
Benzo(k)fluoranthene	45	0.0	45	100	60-140
Benzo(e)pyrene	45	0.0	42	93	60-140
Benzo(a)pyrene	45	0.0	47	104	60-140
Perylene	45	0.0	44	98	60-140
Indeno(1,2,3-cd)pyrene	45	0.0	39	87	60-140
Dibenz(a,h)anthracene	45	0.0	39	87	60-140
Benzo(g,h,i)perylene	45	0.0	34	76	60-140

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

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix Spike - URSC09 Sample No.: AX-F-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	45	120	87	0	40	60-140
2-Methylnaphthalene	45	130	118	20	40	60-140
1-Methylnaphthalene	45	120	111	0	40	60-140
Biphenyl	45	50	111	2	40	60-140
2,6 Dimethylnaphthalene	45	63	87	0	40	60-140
Acenaphthylene	45	55	122	2	40	60-140
Acenaphthene	45	87	71	10	40	60-140
2,3,5 Trimethylnaphthal	45	62	138	1	40	60-140
Fluorene	45	69	96	5	40	60-140
Dibenzothiophene	45	74	164*	0	40	60-140
Phenanthrene	45	80	64	0	40	60-140
Anthracene	45	77	147*	1	40	60-140
1-Methylphenanthrene	45	61	136	0	40	60-140
Fluoranthene	45	67	102	13	40	60-140
Pyrene	45	61	111	8	40	60-140
Benzo(a)anthracene	45	56	124	2	40	60-140
Chrysene	45	54	120	6	40	60-140
Benzo(b)fluoranthene	45	69	153*	9	40	60-140
Benzo(k)fluoranthene	45	53	118	16	40	60-140
Benzo(e)pyrene	45	43	96	3	40	60-140
Benzo(a)pyrene	45	47	104	0	40	60-140
Perylene	45	46	102	4	40	60-140
Indeno(1,2,3-cd)pyrene	45	40	89	2	40	60-140
Dibenz(a,h)anthracene	45	35	78	11	40	60-140
Benzo(g,h,i)perylene	45	34	76	0	40	60-140

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

RPD: 0 out of 25 outside limits
Spike Recovery: 6 out of 50 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix Spike - URSC09 Sample No.: AX-W-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	42	120	160	95	60-140
2-Methylnaphthalene	42	100	140	95	60-140
1-Methylnaphthalene	42	100	140	95	60-140
Biphenyl	42	12	53	98	60-140
2,6 Dimethylnaphthalene	42	40	81	98	60-140
Acenaphthylene	42	0.0	57	136	60-140
Acenaphthene	42	91	130	93	60-140
2,3,5 Trimethylnaphthal	42	12	61	117	60-140
Fluorene	42	39	82	102	60-140
Dibenzothiophene	42	11	64	126	60-140
Phenanthrene	42	78	120	100	60-140
Anthracene	42	18	82	152*	60-140
1-Methylphenanthrene	42	0.0	57	136	60-140
Fluoranthene	42	27	73	110	60-140
Pyrene	42	20	69	117	60-140
Benzo(a)anthracene	42	0.0	56	133	60-140
Chrysene	42	0.0	52	124	60-140
Benzo(b)fluoranthene	42	0.0	96	228*	60-140
Benzo(k)fluoranthene	42	0.0	44	105	60-140
Benzo(e)pyrene	42	0.0	44	105	60-140
Benzo(a)pyrene	42	0.0	46	110	60-140
Perylene	42	0.0	46	110	60-140
Indeno(1,2,3-cd)pyrene	42	0.0	47	112	60-140
Dibenz(a,h)anthracene	42	0.0	42	100	60-140
Benzo(g,h,i)perylene	42	0.0	44	105	60-140

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

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix Spike - URSC09 Sample No.: AX-W-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	42	160	95	0	40	60-140
2-Methylnaphthalene	42	140	95	0	40	60-140
1-Methylnaphthalene	42	140	95	0	40	60-140
Biphenyl	42	53	98	0	40	60-140
2,6 Dimethylnaphthalene	42	81	98	0	40	60-140
Acenaphthylene	42	56	133	2	40	60-140
Acenaphthene	42	130	93	0	40	60-140
2,3,5 Trimethylnaphthal	42	60	114	2	40	60-140
Fluorene	42	82	102	0	40	60-140
Dibenzothiophene	42	65	128	2	40	60-140
Phenanthrene	42	120	100	0	40	60-140
Anthracene	42	90	171*	12	40	60-140
1-Methylphenanthrene	42	58	138	1	40	60-140
Fluoranthene	42	73	110	0	40	60-140
Pyrene	42	68	114	2	40	60-140
Benzo(a)anthracene	42	55	131	2	40	60-140
Chrysene	42	51	121	2	40	60-140
Benzo(b)fluoranthene	42	86	205*	11	40	60-140
Benzo(k)fluoranthene	42	44	105	0	40	60-140
Benzo(e)pyrene	42	44	105	0	40	60-140
Benzo(a)pyrene	42	44	105	5	40	60-140
Perylene	42	45	107	3	40	60-140
Indeno(1,2,3-cd)pyrene	42	45	107	4	40	60-140
Dibenz(a,h)anthracene	42	40	95	5	40	60-140
Benzo(g,h,i)perylene	42	41	98	7	40	60-140

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

RPD: 0 out of 25 outside limits
Spike Recovery: 4 out of 50 outside limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Matrix Spike - STLVT Sample No.: Z1LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		12	120	60-140
2-Methylnaphthalene	10		12	120	60-140
1-Methylnaphthalene	10		12	120	60-140
Biphenyl	10		12	120	60-140
2,6 Dimethylnaphthalene	10		11	110	60-140
Acenaphthylene	10		11	110	60-140
Acenaphthene	10		11	110	60-140
2,3,5 Trimethylnaphthal	10		11	110	60-140
Fluorene	10		11	110	60-140
Dibenzothiophene	10		13	130	60-140
Phenanthrene	10		14	140	60-140
Anthracene	10		12	120	60-140
1-Methylphenanthrene	10		12	120	60-140
Fluoranthene	10		13	130	60-140
Pyrene	10		12	120	60-140
Benzo(a)anthracene	10		11	110	60-140
Chrysene	10		12	120	60-140
Benzo(b)fluoranthene	10		12	120	60-140
Benzo(k)fluoranthene	10		13	130	60-140
Benzo(e)pyrene	10		13	130	60-140
Benzo(a)pyrene	10		13	130	60-140
Perylene	10		12	120	60-140
Indeno(1,2,3-cd)pyrene	10		12	120	60-140
Dibenz(a,h)anthracene	10		12	120	60-140
Benzo(g,h,i)perylene	10		12	120	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 25 outside limits

COMMENTS: _____

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID: ZGM05PS DFTPP Injection Date: 05/06/05

Instrument ID: Z DFTPP Injection Time: 0512

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	43.0
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	53.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	22.0
365	Greater than 1.0% of mass 198	2.43
441	Present, but less than mass 443	14.9
442	Greater than 40.0% of mass 198	90.4
443	17.0 - 23.0% of mass 442	18.3 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD1000	SSTD1000	ZGM1000	05/06/05	0612
02	SSTD500	SSTD500	ZGM500	05/06/05	0648
03	SSTD200	SSTD200	ZGM200	05/06/05	0723
04	SSTD040	SSTD040	ZGM040	05/06/05	0759
05	SSTD2000	SSTD2000	ZGM20002	05/06/05	0835
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID: ZGM09PS DFTPP Injection Date: 05/09/05

Instrument ID: Z DFTPP Injection Time: 0839

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.3 (0.6)1
69	Mass 69 relative abundance	42.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	54.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.0
365	Greater than 1.0% of mass 198	2.70
441	Present, but less than mass 443	16.4
442	Greater than 40.0% of mass 198	101.4
443	17.0 - 23.0% of mass 442	19.8 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZGM500A4	05/09/05	0855
02	Z1LCS	Z1LCS	Q0429Z1	05/09/05	0945
03	SBLKZ1	SBLKZ1	B0429Z1	05/09/05	1020
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID: ZGP02PS DFTPP Injection Date: 05/12/05

Instrument ID: Z DFTPP Injection Time: 0535

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.0
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	58.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.0% of mass 198	2.76
441	Present, but less than mass 443	15.5
442	Greater than 40.0% of mass 198	93.7
443	17.0 - 23.0% of mass 442	18.7 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD2000	SSTD2000	ZGP2000	05/12/05	0803
02	SSTD1000	SSTD1000	ZGP1000	05/12/05	0838
03	SSTD500	SSTD500	ZGP500	05/12/05	0914
04	SSTD200	SSTD200	ZGP200	05/12/05	0949
05	SSTD040	SSTD040	ZGP040	05/12/05	1025
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID: ZGP09PS DFTPP Injection Date: 05/12/05

Instrument ID: Z DFTPP Injection Time: 1417

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.6
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	40.0 - 60.0% of mass 198	58.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 1.0% of mass 198	2.73
441	Present, but less than mass 443	15.7
442	Greater than 40.0% of mass 198	97.0
443	17.0 - 23.0% of mass 442	19.0 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZGP500A	05/12/05	1439
02	EQBLK	616894	616894	05/12/05	1537
03	AX-W-3-9	616874	616874	05/12/05	2132
04	AX-W-3-10	616875	616875	05/12/05	2207
05	AX-W-3-11	616876	616876	05/12/05	2242
06	AX-W-3-13	616878	616878	05/12/05	2353
07	AX-W-3-14	616879	616879	05/13/05	0029
08	AX-W-3-16	616881	616881	05/13/05	0140
09	AX-W-3DUP2	616882	616882	05/13/05	0215
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID: ZGQ01PS DFTPP Injection Date: 05/16/05

Instrument ID: Z DFTPP Injection Time: 0221

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.2
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	56.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	25.8
365	Greater than 1.0% of mass 198	3.52
441	Present, but less than mass 443	19.9
442	Greater than 40.0% of mass 198	126.8
443	17.0 - 23.0% of mass 442	24.6 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD2000	SSTD2000	ZGR2000	05/16/05	0309
02	SSTD1000	SSTD1000	ZGR1000	05/16/05	0344
03	SSTD500	SSTD500	ZGR500	05/16/05	0420
04	SSTD200	SSTD200	ZGR200	05/16/05	0455
05	SSTD040	SSTD040	ZGR040I3	05/16/05	0652
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID: ZGQ03PS DFTPP Injection Date: 05/16/05

Instrument ID: Z DFTPP Injection Time: 1058

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.6
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	54.3
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	25.9
365	Greater than 1.0% of mass 198	3.71
441	Present, but less than mass 443	21.6
442	Greater than 40.0% of mass 198	137.4
443	17.0 - 23.0% of mass 442	27.1 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZGR500B	05/16/05	1218
02	AX-F-3-1	616884	616884	05/16/05	1305
03	AX-W-3	616883	616883	05/16/05	1341
04	AX-W-3MS	616883MS	616883M	05/16/05	1416
05	AX-W-3MSD	616883MD	616883S	05/16/05	1452
06	AX-F-3-2	616885	616885	05/16/05	1528
07	AX-F-3-3	616886	616886	05/16/05	1604
08	AX-F-3-4	616887	616887	05/16/05	1639
09	AX-F-3-5	616888	616888	05/16/05	1714
10	AX-F-3-6	616889	616889	05/16/05	1750
11	AX-F-3-7	616890	616890	05/16/05	1826
12	AX-F-3-8	616891	616891	05/16/05	1901
13	AX-F-3DUP1	616892	616892	05/16/05	1936
14	AX-F-3	616893	616893	05/16/05	2012
15	AX-F-3MS	616893MS	616893M	05/16/05	2047
16	AX-F-3MSD	616893MD	616893S	05/16/05	2123
17	AX-W-3-12	616877	616877	05/16/05	2158
18	AX-W-3-15	616880	616880	05/16/05	2233
19					
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6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Instrument ID: Z Calibration Date(s): 05/06/05 05/06/05

Calibration Time(s): 0612 0835

LAB FILE ID: RRF40 =ZGM040 RRF200=ZGM200
RRF500=ZGM500 RRF1000=ZGM1000 RRF2000=ZGM20002

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.234	1.143	1.059	1.028	0.936	1.080	10.5*
2-Methylnaphthalene *	0.744	0.693	0.647	0.623	0.565	0.654	10.4*
1-Methylnaphthalene *	0.697	0.645	0.586	0.572	0.539	0.608	10.4*
Biphenyl *	2.060	1.766	1.590	1.484	1.410	1.662	15.6*
2,6 Dimethylnaphthalene *	1.307	1.186	1.100	1.071	1.014	1.136	10.1*
Acenaphthylene *	1.908	1.767	1.693	1.708	1.613	1.738	6.3*
Acenaphthene *	1.284	1.188	1.080	1.042	0.967	1.112	11.2*
2,3,5 Trimethylnaphthalene *	1.067	0.986	0.948	0.932	0.899	0.966	6.7*
Fluorene *	1.519	1.405	1.284	1.265	1.184	1.331	9.9*
Dibenzothiophene *	1.378	1.200	1.056	0.955	0.872	1.092	18.4*
Phenanthrene *	2.038	1.725	1.557	1.376	1.298	1.599	18.5*
Anthracene *	1.187	1.107	1.067	0.997	0.923	1.056	9.6*
1-Methylphenanthrene *	1.039	0.946	0.908	0.885	0.822	0.920	8.8*
Fluoranthene *	1.488	1.361	1.339	1.303	1.267	1.352	6.2*
Pyrene *	1.488	1.284	1.236	1.386	1.138	1.306	10.3*
Benzo(a)anthracene *	1.530	1.517	1.471	1.356	1.383	1.451	5.4*
Chrysene *	1.880	1.647	1.498	1.398	1.277	1.540	15.2*
Benzo(b)fluoranthene *	1.687	1.655	1.568	1.386	1.410	1.541	9.0*
Benzo(k)fluoranthene *	1.930	1.827	1.765	1.591	1.619	1.746	8.1*
Benzo(e)pyrene *	1.704	1.475	1.357	1.217	1.239	1.398	14.3*
Benzo(a)pyrene *	1.540	1.496	1.414	1.285	1.317	1.410	7.8*
Perylene *	1.579	1.602	1.515	1.359	1.379	1.487	7.5*
Indeno(1,2,3-cd)pyrene *	1.458	1.464	1.473	1.407	1.448	1.450	1.8*
Dibenz(a,h)anthracene *	1.105	1.087	1.134	1.098	1.131	1.111	1.9*
Benzo(g,h,i)perylene *	1.418	1.394	1.348	1.266	1.246	1.334	5.7*
Naphthalene-d8(SS) *	1.997	1.834	1.834	1.809	1.743	1.843	5.1*
Acenaphthene-d10(SS) *	0.890	0.834	0.834	0.847	0.792	0.839	4.2*
Phenanthrene-d10(SS) *	1.194	1.138	1.127	1.187	1.123	1.154	2.9*
Chrysene-d12(SS) *	1.154	1.116	1.080	1.080	0.908	1.068	8.8*
Perylene-d12(SS) *	0.824	0.862	0.842	0.742	0.676	0.789	9.9*

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

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Instrument ID: Z Calibration Date(s): 05/12/05 05/12/05

Calibration Time(s): 0803 1025

LAB FILE ID: RRF40 =ZGP040 RRF200=ZGP200
RRF500=ZGP500 RRF1000=ZGP1000 RRF2000=ZGP2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.170	1.133	1.127	1.107	1.059	1.119	3.6*
2-Methylnaphthalene *	0.618	0.622	0.644	0.649	0.658	0.638	2.7*
1-Methylnaphthalene *	0.580	0.585	0.608	0.598	0.572	0.589	2.4*
Biphenyl *	1.665	1.656	1.627	1.568	1.568	1.617	2.9*
2,6 Dimethylnaphthalene *	1.100	1.099	1.134	1.106	1.107	1.109	1.3*
Acenaphthylene *	1.672	1.751	1.824	1.920	2.108	1.855	9.1*
Acenaphthene *	1.034	1.068	1.097	1.099	1.153	1.090	4.0*
2,3,5 Trimethylnaphthalene *	0.874	0.921	0.941	0.974	1.090	0.960	8.5*
Fluorene *	1.210	1.217	1.293	1.318	1.437	1.295	7.1*
Dibenzothiophene *	1.744	1.666	1.593	1.474	1.039	1.503	18.5*
Phenanthrene *	2.361	2.331	2.273	2.140	1.593	2.140	14.8*
Anthracene *	1.561	1.679	1.780	1.706	1.214	1.588	14.1*
1-Methylphenanthrene *	1.078	1.088	1.139	1.120	0.930	1.071	7.7*
Fluoranthene *	1.516	1.562	1.696	1.739	1.483	1.599	7.0*
Pyrene *	1.426	1.412	1.478	1.550	1.343	1.442	5.4*
Benzo(a)anthracene *	1.317	1.266	1.472	1.436	1.616	1.421	9.7*
Chrysene *	1.822	1.562	1.599	1.590	1.501	1.615	7.6*
Benzo(b)fluoranthene *	1.514	1.404	1.529	1.542	1.507	1.499	3.7*
Benzo(k)fluoranthene *	1.607	1.501	1.664	1.669	1.781	1.644	6.2*
Benzo(e)pyrene *	1.411	1.251	1.313	1.316	1.331	1.324	4.3*
Benzo(a)pyrene *	1.308	1.173	1.306	1.322	1.377	1.297	5.8*
Perylene *	1.307	1.257	1.337	1.365	1.403	1.334	4.2*
Indeno(1,2,3-cd)pyrene *	1.215	1.111	1.265	1.338	1.424	1.271	9.4*
Dibenz(a,h)anthracene *	0.799	0.790	0.841	0.927	1.075	0.886	13.4*
Benzo(g,h,i)perylene *	1.088	1.021	1.121	1.158	1.213	1.120	6.5*
Naphthalene-d8(SS) *	2.052	2.013	1.797	1.994	2.047	1.981	5.3*
Acenaphthene-d10(SS) *	0.895	0.885	0.810	0.914	0.912	0.883	4.8*
Phenanthrene-d10(SS) *	0.921	0.924	0.850	0.984	1.211	0.978	14.2*
Chrysene-d12(SS) *	1.207	1.219	1.016	1.106	1.023	1.114	8.7*
Perylene-d12(SS) *	0.735	0.726	0.641	0.704	0.692	0.700	5.3*

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

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Instrument ID: Z Calibration Date(s): 05/16/05 05/16/05

Calibration Time(s): 0309 0652

LAB FILE ID: RRF40 =ZGR040I3 RRF200=ZGR200
RRF500=ZGR500 RRF1000=ZGR1000 RRF2000=ZGR2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	0.982	1.112	1.072	0.995	0.929	1.018	7.2*
2-Methylnaphthalene *	0.597	0.674	0.658	0.604	0.592	0.625	6.1*
1-Methylnaphthalene *	0.540	0.635	0.606	0.567	0.516	0.573	8.4*
Biphenyl *	1.710	1.924	1.794	1.660	1.450	1.708	10.3*
2,6 Dimethylnaphthalene *	1.150	1.307	1.255	1.204	1.066	1.196	7.8*
Acenaphthylene *	1.689	2.105	2.031	1.994	1.684	1.901	10.5*
Acenaphthene *	1.278	1.481	1.414	1.336	1.138	1.329	9.9*
2,3,5 Trimethylnaphthalene *	0.906	1.095	1.076	0.997	0.854	0.986	10.6*
Fluorene *	1.442	1.649	1.590	1.479	1.215	1.475	11.4*
Dibenzothiophene *	1.286	1.329	1.235	1.113	0.765	1.146	19.9*
Phenanthrene *	1.956	1.891	1.736	1.615	1.084	1.656	20.9*
Anthracene *	1.198	1.359	1.291	1.260	0.842	1.190	17.1*
1-Methylphenanthrene *	1.028	1.018	0.959	0.932	0.758	0.939	11.6*
Fluoranthene *	1.340	1.421	1.390	1.320	0.972	1.289	14.1*
Pyrene *	1.616	1.553	1.508	1.505	1.254	1.487	9.3*
Benzo(a)anthracene *	1.545	1.476	1.352	1.388	1.454	1.443	5.2*
Chrysene *	1.704	1.558	1.418	1.368	1.247	1.459	12.1*
Benzo(b)fluoranthene *	1.770	1.894	1.681	1.679	1.454	1.696	9.5*
Benzo(k)fluoranthene *	1.805	1.733	1.535	1.533	1.542	1.630	8.0*
Benzo(e)pyrene *	1.611	1.513	1.315	1.283	1.210	1.386	12.2*
Benzo(a)pyrene *	1.474	1.416	1.242	1.266	1.217	1.323	8.7*
Perylene *	1.647	1.476	1.307	1.313	1.206	1.390	12.5*
Indeno(1,2,3-cd)pyrene *	1.491	1.567	1.403	1.459	1.411	1.466	4.6*
Dibenz(a,h)anthracene *	1.128	1.152	0.972	1.136	1.120	1.102	6.6*
Benzo(g,h,i)perylene *	1.417	1.374	1.237	1.239	1.203	1.294	7.3*
Naphthalene-d8(SS) *	1.619	1.671	1.659	1.607	1.547	1.621	3.0*
Acenaphthene-d10(SS) *	0.657	0.676	0.678	0.662	0.678	0.670	1.5*
Phenanthrene-d10(SS) *	0.945	0.964	1.003	0.976	1.168	1.011	8.9*
Chrysene-d12(SS) *	1.075	1.015	1.106	0.971	0.941	1.022	6.8*
Perylene-d12(SS) *	0.782	0.771	0.800	0.734	0.741	0.766	3.6*

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Instrument ID: Z Calibration Date: 05/09/05 Time: 0855

Lab File ID: ZGM500A4 Init. Calib. Date(s): 05/06/05 05/06/05

Init. Calib. Times: 0612 0835

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D	
Naphthalene	1.080	1.018	0.2	5.7	25.0	
2-Methylnaphthalene	0.654	0.618	0.2	5.5	25.0	
1-Methylnaphthalene	0.608	0.586	0.2	3.6	25.0	
Biphenyl	1.662	1.724	0.2	3.7	25.0	
2,6 Dimethylnaphthalene	1.136	1.206	0.2	6.2	25.0	
Acenaphthylene	1.738	1.730	0.2	0.5	25.0	
Acenaphthene	1.112	1.296	0.2	16.5	25.0	
2,3,5 Trimethylnaphthalene	0.966	0.971	0.2	0.5	25.0	
Fluorene	1.331	1.345	0.2	1.0	25.0	
Dibenzothiophene	1.092	1.461	0.2	33.8	25.0	<-
Phenanthrene	1.599	1.215	0.2	24.0	25.0	
Anthracene	1.056	1.265	0.2	19.8	25.0	
1-Methylphenanthrene	0.920	0.863	0.2	6.2	25.0	
Fluoranthene	1.352	1.093	0.2	19.2	25.0	
Pyrene	1.306	1.279	0.2	2.1	25.0	
Benzo(a)anthracene	1.451	1.330	0.2	8.3	25.0	
Chrysene	1.540	1.410	0.2	8.4	25.0	
Benzo(b)fluoranthene	1.541	1.475	0.2	4.3	25.0	
Benzo(k)fluoranthene	1.746	1.521	0.2	12.9	25.0	
Benzo(e)pyrene	1.398	1.216	0.2	13.0	25.0	
Benzo(a)pyrene	1.410	1.248	0.2	11.5	25.0	
Perylene	1.487	1.348	0.2	9.3	25.0	
Indeno(1,2,3-cd)pyrene	1.450	1.276	0.2	12.0	25.0	
Dibenz(a,h)anthracene	1.111	0.970	0.2	12.7	25.0	
Benzo(g,h,i)perylene	1.334	1.130	0.2	15.3	25.0	
Naphthalene-d8(SS)	1.843	1.690	0.2	8.3	25.0	
Acenaphthene-d10(SS)	0.839	0.692	0.2	17.5	25.0	
Phenanthrene-d10(SS)	1.154	1.099	0.2	4.8	25.0	
Chrysene-d12(SS)	1.068	1.121	0.2	5.0	25.0	
Perylene-d12(SS)	0.789	0.781	0.2	1.0	25.0	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Instrument ID: Z Calibration Date: 05/12/05 Time: 1439

Lab File ID: ZGP500A Init. Calib. Date(s): 05/12/05 05/12/05

Init. Calib. Times: 0803 1025

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.119	1.157	0.2	3.4	25.0
2-Methylnaphthalene	0.638	0.634	0.2	0.6	25.0
1-Methylnaphthalene	0.589	0.591	0.2	0.3	25.0
Biphenyl	1.617	1.666	0.2	3.0	25.0
2,6 Dimethylnaphthalene	1.109	1.127	0.2	1.6	25.0
Acenaphthylene	1.855	1.903	0.2	2.6	25.0
Acenaphthene	1.090	1.102	0.2	1.1	25.0
2,3,5 Trimethylnaphthalene	0.960	0.964	0.2	0.4	25.0
Fluorene	1.295	1.326	0.2	2.4	25.0
Dibenzothiophene	1.503	1.612	0.2	7.2	25.0
Phenanthrene	2.140	2.316	0.2	8.2	25.0
Anthracene	1.588	1.813	0.2	14.2	25.0
1-Methylphenanthrene	1.071	1.108	0.2	3.4	25.0
Fluoranthene	1.599	1.643	0.2	2.8	25.0
Pyrene	1.442	1.457	0.2	1.0	25.0
Benzo(a)anthracene	1.421	1.449	0.2	2.0	25.0
Chrysene	1.615	1.619	0.2	0.2	25.0
Benzo(b)fluoranthene	1.499	1.528	0.2	1.9	25.0
Benzo(k)fluoranthene	1.644	1.634	0.2	0.6	25.0
Benzo(e)pyrene	1.324	1.286	0.2	2.9	25.0
Benzo(a)pyrene	1.297	1.305	0.2	0.6	25.0
Perylene	1.334	1.315	0.2	1.4	25.0
Indeno(1,2,3-cd)pyrene	1.271	1.197	0.2	5.8	25.0
Dibenz(a,h)anthracene	0.886	0.872	0.2	1.6	25.0
Benzo(g,h,i)perylene	1.120	1.070	0.2	4.5	25.0
Naphthalene-d8(SS)	1.981	1.924	0.2	2.9	25.0
Acenaphthene-d10(SS)	0.883	0.838	0.2	5.1	25.0
Phenanthrene-d10(SS)	0.978	0.902	0.2	7.8	25.0
Chrysene-d12(SS)	1.114	1.009	0.2	9.4	25.0
Perylene-d12(SS)	0.700	0.637	0.2	9.0	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Instrument ID: Z Calibration Date: 05/16/05 Time: 1218

Lab File ID: ZGR500B Init. Calib. Date(s): 05/16/05 05/16/05

Init. Calib. Times: 0309 0652

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.018	1.089	0.2	7.0	25.0
2-Methylnaphthalene	0.625	0.666	0.2	6.6	25.0
1-Methylnaphthalene	0.573	0.622	0.2	8.6	25.0
Biphenyl	1.708	1.880	0.2	10.1	25.0
2,6 Dimethylnaphthalene	1.196	1.294	0.2	8.2	25.0
Acenaphthylene	1.901	1.999	0.2	5.2	25.0
Acenaphthene	1.329	1.447	0.2	8.9	25.0
2,3,5 Trimethylnaphthalene	0.986	1.074	0.2	8.9	25.0
Fluorene	1.475	1.620	0.2	9.8	25.0
Dibenzothiophene	1.146	1.260	0.2	9.9	25.0
Phenanthrene	1.656	1.818	0.2	9.8	25.0
Anthracene	1.190	1.277	0.2	7.3	25.0
1-Methylphenanthrene	0.939	0.981	0.2	4.5	25.0
Fluoranthene	1.289	1.407	0.2	9.2	25.0
Pyrene	1.487	1.516	0.2	2.0	25.0
Benzo(a)anthracene	1.443	1.387	0.2	3.9	25.0
Chrysene	1.459	1.505	0.2	3.2	25.0
Benzo(b)fluoranthene	1.696	1.770	0.2	4.4	25.0
Benzo(k)fluoranthene	1.630	1.674	0.2	2.7	25.0
Benzo(e)pyrene	1.386	1.441	0.2	4.0	25.0
Benzo(a)pyrene	1.323	1.356	0.2	2.5	25.0
Perylene	1.390	1.398	0.2	0.6	25.0
Indeno(1,2,3-cd)pyrene	1.466	1.461	0.2	0.3	25.0
Dibenz(a,h)anthracene	1.102	1.109	0.2	0.6	25.0
Benzo(g,h,i)perylene	1.294	1.298	0.2	0.3	25.0
Naphthalene-d8(SS)	1.621	1.555	0.2	4.1	25.0
Acenaphthene-d10(SS)	0.670	0.615	0.2	8.2	25.0
Phenanthrene-d10(SS)	1.011	0.888	0.2	12.2	25.0
Chrysene-d12(SS)	1.022	0.921	0.2	9.9	25.0
Perylene-d12(SS)	0.766	0.698	0.2	8.9	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGM500A4 Date Analyzed: 05/09/05

Instrument ID: Z Time Analyzed: 0855

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	265697	7.53	108735	11.02	104812	12.03
	UPPER LIMIT	531394	8.03	217470	11.52	209624	12.53
	LOWER LIMIT	132848	7.03	54368	10.52	52406	11.53
	STLVT SAMPLE NO.						
01	Z1LCS	209297	7.53	92506	11.02	109181	12.03
02	SBLKZ1	236417	7.53	99555	10.99	120562	12.03
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGM500A4 Date Analyzed: 05/09/05

Instrument ID: Z Time Analyzed: 0855

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	172827	13.94	132067	19.30	78529	21.83
	UPPER LIMIT	345654	14.44	264134	19.80	157058	22.33
	LOWER LIMIT	86414	13.44	66034	18.80	39264	21.33
	STLVT SAMPLE NO.						
01	Z1LCS	127159	13.94	95000	19.30	81354	21.83
02	SBLKZ1	176863	13.94	97076	19.29	81495	21.83
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGM500A4 Date Analyzed: 05/09/05

Instrument ID: Z Time Analyzed: 0855

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	91994	21.97				
	UPPER LIMIT	183988	22.47				
	LOWER LIMIT	45997	21.47				
	STLVT SAMPLE NO.						
01	Z1LCS	79054	21.97				
02	SBLKZ1	74266	21.97				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGP500A Date Analyzed: 05/12/05

Instrument ID: Z Time Analyzed: 1439

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	94913	7.42	41334	10.88	32880	11.89
	UPPER LIMIT	189826	7.92	82668	11.38	65760	12.39
	LOWER LIMIT	47456	6.92	20667	10.38	16440	11.39
	STLVT SAMPLE NO.						
01	EQBLK	64494	7.42	28586	10.88	31183	11.89
02	AX-W-3-9	48029	7.40	26171	10.88	63771	11.89
03	AX-W-3-10	74948	7.40	34621	10.88	49469	11.89
04	AX-W-3-11	74852	7.40	37704	10.88	59261	11.89
05	AX-W-3-13	78325	7.40	36761	10.88	57479	11.89
06	AX-W-3-14	69124	7.40	39272	10.88	61286	11.89
07	AX-W-3-16	54368	7.40	24801	10.88	58889	11.89
08	AX-W-3DUP2	56629	7.40	29646	10.88	59454	11.89
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGP500A Date Analyzed: 05/12/05

Instrument ID: Z Time Analyzed: 1439

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	44508	13.83	36505	19.16	24119	21.70
	UPPER LIMIT	89016	14.33	73010	19.66	48238	22.20
	LOWER LIMIT	22254	13.33	18252	18.66	12060	21.20
	STLVT SAMPLE NO.						
01	EQBLK	32219	13.83	21663	19.16	21122	21.70
02	AX-W-3-9	28083	13.80	21186	19.16	31376	21.70
03	AX-W-3-10	36334	13.80	28502	19.16	26387	21.70
04	AX-W-3-11	39612	13.80	30659	19.16	29049	21.70
05	AX-W-3-13	39327	13.80	28776	19.16	26882	21.70
06	AX-W-3-14	42477	13.80	31284	19.16	23822	21.70
07	AX-W-3-16	28038	13.80	20162	19.16	22297	21.70
08	AX-W-3DUP2	33717	13.80	23984	19.16	22194	21.70
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGP500A Date Analyzed: 05/12/05

Instrument ID: Z Time Analyzed: 1439

		IS7 (PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	23045	21.83				
	UPPER LIMIT	46090	22.33				
	LOWER LIMIT	11522	21.33				
	STLVT SAMPLE NO.						
01	EQBLK	15148	21.83				
02	AX-W-3-9	13978	21.83				
03	AX-W-3-10	16822	21.83				
04	AX-W-3-11	17686	21.83				
05	AX-W-3-13	15884	21.83				
06	AX-W-3-14	14928	21.83				
07	AX-W-3-16	11352*	21.83				
08	AX-W-3DUP2	12636	21.83				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGR500B Date Analyzed: 05/16/05

Instrument ID: Z Time Analyzed: 1218

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	181232	7.35	71631	10.81	77692	11.83
	UPPER LIMIT	362464	7.85	143262	11.31	155384	12.33
	LOWER LIMIT	90616	6.85	35816	10.31	38846	11.33
	STLVT SAMPLE NO.						
01	AX-F-3-1	52003*	7.35	48467	10.81	98471	11.83
02	AX-W-3	148137	7.33	71306	10.79	90383	11.83
03	AX-W-3MS	126188	7.33	60519	10.79	95611	11.83
04	AX-W-3MSD	154362	7.33	73282	10.79	96413	11.83
05	AX-F-3-2	129260	7.33	61422	10.79	99943	11.83
06	AX-F-3-3	135386	7.33	69686	10.79	103402	11.83
07	AX-F-3-4	124098	7.33	67276	10.79	100686	11.83
08	AX-F-3-5	129229	7.33	67261	10.79	106811	11.83
09	AX-F-3-6	130186	7.33	73669	10.79	91848	11.83
10	AX-F-3-7	122351	7.33	65252	10.79	90876	11.83
11	AX-F-3-8	126038	7.33	71801	10.79	97148	11.83
12	AX-F-3DUP1	102427	7.33	62558	10.79	109998	11.83
13	AX-F-3	84032*	7.33	47305	10.79	114454	11.83
14	AX-F-3MS	122287	7.33	72481	10.79	110148	11.83
15	AX-F-3MSD	140122	7.33	83121	10.79	112554	11.83
16	AX-W-3-12	176561	7.33	92834	10.79	106467	11.80
17	AX-W-3-15	146626	7.33	95962	10.79	108557	11.80
18							
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGR500B Date Analyzed: 05/16/05

Instrument ID: Z Time Analyzed: 1218

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	103449	13.74	87663	19.07	63444	21.61
	UPPER LIMIT	206898	14.24	175326	19.57	126888	22.11
	LOWER LIMIT	51724	13.24	43832	18.57	31722	21.11
	STLVT SAMPLE NO.						
01	AX-F-3-1	76812	13.74	66886	19.07	82941	21.61
02	AX-W-3	91946	13.74	79742	19.07	75418	21.61
03	AX-W-3MS	82354	13.74	65125	19.07	76470	21.61
04	AX-W-3MSD	96249	13.74	78410	19.07	77670	21.61
05	AX-F-3-2	83453	13.74	70122	19.07	76191	21.61
06	AX-F-3-3	90410	13.74	77845	19.07	77864	21.61
07	AX-F-3-4	86632	13.74	73337	19.07	79414	21.61
08	AX-F-3-5	89193	13.74	74367	19.07	85870	21.61
09	AX-F-3-6	94652	13.71	72924	19.06	74040	21.61
10	AX-F-3-7	82580	13.71	67527	19.06	74782	21.61
11	AX-F-3-8	89280	13.71	77075	19.07	77893	21.59
12	AX-F-3DUP1	80282	13.71	67321	19.07	87062	21.59
13	AX-F-3	58633	13.71	50597	19.07	87916	21.59
14	AX-F-3MS	95863	13.71	75061	19.07	87720	21.59
15	AX-F-3MSD	111566	13.71	83581	19.06	98083	21.59
16	AX-W-3-12	124604	13.71	89817	19.07	82077	21.59
17	AX-W-3-15	134244	13.71	97367	19.07	75976	21.59
18							
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 106716

Lab File ID (Standard): ZGR500B Date Analyzed: 05/16/05

Instrument ID: Z Time Analyzed: 1218

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	66474	21.75				
	UPPER LIMIT	132948	22.25				
	LOWER LIMIT	33237	21.25				
	STLVT SAMPLE NO.						
01	AX-F-3-1	46634	21.75				
02	AX-W-3	60368	21.75				
03	AX-W-3MS	48735	21.75				
04	AX-W-3MSD	53151	21.75				
05	AX-F-3-2	48089	21.75				
06	AX-F-3-3	53681	21.75				
07	AX-F-3-4	50640	21.75				
08	AX-F-3-5	48662	21.75				
09	AX-F-3-6	51589	21.75				
10	AX-F-3-7	45073	21.75				
11	AX-F-3-8	54092	21.75				
12	AX-F-3DUP1	42387	21.75				
13	AX-F-3	32431*	21.75				
14	AX-F-3MS	46622	21.75				
15	AX-F-3MSD	51698	21.75				
16	AX-W-3-12	60272	21.75				
17	AX-W-3-15	53609	21.75				
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

STL Burlington
Colchester, Vermont

Sample Data Summary Package

SDG: 108055

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

August 4, 2005

Mr. Paul Sklar
URS Corporation
10200 Innovation Drive
Suite 500
Milwaukee, WI 53226

Re: Laboratory Project No. 25000
Case: 25000; SDG: 108055

Dear Mr. Sklar:

Enclosed are the analytical results for samples received by STL Burlington on June 18, 2005. This report is sequentially numbered starting with page 0001 and ending with page 0558. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 06/18/05 ETR No: 108055		
626614	SVITREUM-F-1-1	06/16/05	Tissue
626615	SVITREUM-F-1-DUP1	06/16/05	Tissue
626616	SVITREUM-F-1-2	06/16/05	Tissue
626617	SVITREUM-F-1-3	06/16/05	Tissue
626618	SVITREUM-F-1-4	06/16/05	Tissue
626619	SVITREUM-F-1-5	06/16/05	Tissue
626620	SVITREUM-F-1-6	06/16/05	Tissue
626620DP	SVITREUM-F-1-6REP	06/16/05	Tissue
626620MS	SVITREUM-F-1-6MS	06/16/05	Tissue
626620MD	SVITREUM-F-1-6MSD	06/16/05	Tissue
626621	SVITREUM-W-1-1	06/15/05	Tissue
626622	SVITREUM-W-1-DUP1	06/15/05	Tissue
626623	SVITREUM-W-1-2	06/16/05	Tissue
626624	SVITREUM-W-1-3	06/16/05	Tissue
626625	SVITREUM-W-1-4	06/16/05	Tissue
626626	SVITREUM-W-3-3	04/20/05	Tissue
626627	SVITREUM-W-3-4	04/20/05	Tissue
626628	SVITREUM-F-3-1	04/20/05	Tissue
626629	SVITREUM-F-3-2	04/20/05	Tissue
626630	SVITREUM-F-3-3	04/20/05	Tissue
626631	SVITREUM-F-3-4	04/20/05	Tissue
626632	SVITREUM-F-3-5	04/20/05	Tissue
626633	SVITREUM-F-3-6	04/20/05	Tissue
626634	EB1		Solid

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The client sample identifications have been truncated on the analytical reports to facilitate use of commercial data processing systems. In general, the dashes were removed, then as necessary the identifications were truncated from left to right. The entire identification listed on this case narrative will appear in the electronic deliverable. To provide consistency for reporting all Tissue samples submitted for this project, the 'NS-TA' prefix was removed from all samples, and does not appear on this case narrative or in the electronic deliverable.

Please note that the results for the samples in this delivery group are reported on a wet weight basis.

An equipment blank was generated at the time of tissue preparation/homogenization. This equipment blank was carried through the analytical process and the results reported on the same weight/weight basis as the samples. The analysis of the equipment blank was free of contamination.

The PAH analyses of the matrix spikes associated with sample SVITREUM-F-1-6 yielded elevated percent recoveries for select target compounds. The associated blank spike sample exhibited acceptable recoveries for all compounds.

The original PAH analysis of sample SVITREUM-F-1-2 yielded the presence of target compounds at concentrations above calibration range. This sample was re-analyzed at an appropriate dilution yielding acceptable results. Both sets of data have been presented in this case submittal. Note that the dilution analysis yielded responses below control criteria for the internal standards spiked at the time of extraction, which in this analysis are utilized as surrogates rather than as true internal standards. All surrogate recoveries were acceptable.

The original PAH analyses of samples SVITREUM-F-1-1, SVITREUM-F-1-2, SVITREUM-F-3-4 and SVITREUM-F-3-5 yielded elevated response for true internal standard benzo(a)pyrene. These samples were re-analyzed yielding similar results, indicating a matrix effect.

The original analysis of sample SVITREUM-W-3-3 yielded surrogate recoveries below control criteria. An aliquot of this sample that had not been subjected to GPC cleanup was analyzed and yielded acceptable surrogate recoveries. An aliquot of method blank SBLKR8 that was not put through GPC was analyzed in association with this sample, and has been reported as SBLK8R to provide distinction between the two analyses of the same method blank. Note that the final analysis of sample SVITREUM-W-3-3 also exhibited elevated response of true internal standard benzo(a)pryene, which is attributable to a matrix effect.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Jim Madison
Project Manager

Enclosure
Cc: Susanne Tomajko

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: WRS CORP.
Address: 10200 INNOVATION DR.
MILWAUKEE, WI 53226
Contact: PAUL SKLAR
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote:

Invoice to:
Company:
Address: SAME
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25684335
Project Name: ASHLAND / NSA LAKEFRONT SUPERFUND
No/Type of Containers²: P/O

ANALYSIS REQUESTED: SIMPAH; LIPIDS; % SOLIDS

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1450		X	NS-TA-SUITREUM-F-1-1				1	X	X	X	Run a duplicate
	6/16	1455			NS-TA-SUITREUM-F-1-2				1	X	X	X	sample of the
	6/16	1500			NS-TA-SUITREUM-F-1-3				1	X	X	X	homogenized
	6/16	1505			NS-TA-SUITREUM-F-1-4				1	X	X	X	tissue sample
	6/16	1510			NS-TA-SUITREUM-F-1-5				1	X	X	X	at a rate of
	6/16	1515			NS-TA-SUITREUM-F-1-6				1	X	X	X	1 duplicate per
	6/15	2345			NS-TA-SUITREUM-W-1-1				1	X	X	X	every 10 samples
	6/16	1500			NS-TA-SUITREUM-W-1-2				1	X	X	X	
	6/16	1505			NS-TA-SUITREUM-W-1-3				1	X	X	X	
	6/16	1510			NS-TA-SUITREUM-W-1-4				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patmond	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

18234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25648375
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1510		X	NS-TA-SUITREUM-W-1-4				1	X	X	X	Runa MS/MSD
	6/16	1515			NS-TA-SUITREUM-W-1-5				1	X	X	X	sample of the
	6/15	2130 BB			NS-TA-SUITREUM-W-3-1				1	X	X	X	homogenized
	6/15	2135			NS-TA-SUITREUM-W-3-2				1	X	X	X	tissue sample
	4/20	2300			NS-TA-SUITREUM-W-3-3				1	X	X	X	at a rate of
	4/20	2305			NS-TA-SUITREUM-W-3-4				1	X	X	X	1 MS/MSD per
	4/20	2310			NS-TA-SUITREUM-W-3-5				1	X	X	X	every 20 samples
	4/20	2315			NS-TA-SUITREUM-W-3-6				1	X	X	X	
	4/20	2200			NS-TA-SUITREUM-F-3-1				1	X	X	X	
	4/20	2220			NS-TA-SUITREUM-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnoad	06.18.05	1030

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

7-1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	4/20	2230		X	NS-TA-SUITREUM-F-3-3				1	X	X	X	
	4/20	2242			NS-TA-SUITREUM-F-3-4				1	X	X	X	
	4/20	2248			NS-TA-SUITREUM-F-3-5				1	X	X	X	
	4/20	2255			NS-TA-SUITREUM-F-3-6				1	X	X	X	
	6/15	2130			NS-TA-MMACROLEPIDOTUM-W-3-1				1	X	X	X	
	6/16	1200			NS-TA-MMACROLEPIDOTUM-W-3-2				1	X	X	X	
	6/16	1205			NS-TA-MMACROLEPIDOTUM-W-3-3				1	X	X	X	
	6/16	1210			NS-TA-MMACROLEPIDOTUM-W-3-4				1	X	X	X	
	6/16	1215			NS-TA-MMACROLEPIDOTUM-W-3-5				1	X	X	X	
	6/16	1220			NS-TA-MMACROLEPIDOTUM-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Palmer	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

L8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berrer
Sampler's Signature: [signature]

Proj. No.: 25688375
Project Name: Ashland/NSP ~~Superfund~~ Lakefront Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1225		X	NS-TA-MMACROLEPIDOTUM-W-3-7				1	X	X	X	
	6/17	0945		X	NS-TA-MMACROLEPIDOTUM-W-3-8				1	X	X	X	
	6/15	2200			NS-TA-MMACROLEPIDOTUM-W-1-1				1	X	X	X	
	6/15	2205			NS-TA-MMACROLEPIDOTUM-W-1-2				1	X	X	X	
	6/15	2210			NS-TA-MMACROLEPIDOTUM-W-1-3				1	X	X	X	
	6/16	1420			NS-TA-MMACROLEPIDOTUM-W-1-4				1	X	X	X	
	6/16	1425			NS-TA-MMACROLEPIDOTUM-W-1-5				1	X	X	X	
	6/16	1430			NS-TA-MMACROLEPIDOTUM-W-1-6				1	X	X	X	
	~~6/17~~	~~1000~~			~~NS-TA-MMACROLEPIDOTUM-W-1-7~~		BB		0				
	~~6/15~~	~~1005~~			~~NS-TA-MMACROLEPIDOTUM-W-1-8~~		BB		0				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patnoad	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks:

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

4-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688325
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED: STM PAH; LIPIDS; % SOLIDS

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	0945		X	NS-TA-MMACROLEPIDOTUM-F-1-1				1	X	X	X	
	6/15	2250			NS-TA-MMACROLEPIDOTUM-F-1-2				1	X	X	X	
	6/15	2300			NS-TA-MMACROLEPIDOTUM-F-1-3				1	X	X	X	
	6/15	2305			NS-TA-MMACROLEPIDOTUM-F-1-4				1	X	X	X	
	6/15	2310			NS-TA-MMACROLEPIDOTUM-F-1-5				1	X	X	X	
	6/15	2315			NS-TA-MMACROLEPIDOTUM-F-1-6				1	X	X	X	
	6/15	2320			NS-TA-MMACROLEPIDOTUM-F-1-7				1	X	X	X	
	6/15	2325			NS-TA-MMACROLEPIDOTUM-F-1-8				1	X	X	X	
	6/15	1325			NS-TA-MMACROLEPIDOTUM-F-3-1				1	X	X	X	
	6/15	1330			NS-TA-MMACROLEPIDOTUM-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patrowal	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container A - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes.
Please Fax written changes to (802) 655-1248

L8234-200 (12/02)

5-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP / Ashland Lake Front + Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O		SIM PAH	CIPIDS	% SOLIDS							Lab/Sample ID (Lab Use Only)
T	6/15	1335		X	NS-TA-MMACROLEPIDOTUM-F-3-3				1		X	X	X							
	6/15	1340			NS-TA-MMACROLEPIDOTUM-F-3-4				1		X	X	X							
	6/15	1345			NS-TA-MMACROLEPIDOTUM-F-3-5				1		X	X	X							
	6/15	1350			NS-TA-MMACROLEPIDOTUM-F-3-6				1		X	X	X							
	6/16	1045			NS-TA-MMACROLEPIDOTUM-F-3-7				1		X	X	X							
	6/16	1050			NS-TA-MMACROLEPIDOTUM-F-3-8				1		X	X	X							
	6/15	0800			NS-TA-ARUPESTRIS-W-1-1				1		X	X	X							
	6/16	1700			NS-TA-ARUPESTRIS-W-1-2				1		X	X	X							
	6/16	1705			NS-TA-ARUPESTRIS-W-1-3				1		X	X	X							
	6/16	1715			NS-TA-ARUPESTRIS-W-1-4				1		X	X	X							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnoad	~~06.30.05~~ 06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner

Sampler's Signature: Brian Berner

Proj. No.: 25684375

Project Name: NSP/~~[illegible]~~ Ashland Lake Front Superfund

No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1720			NS-TA-ARUPESTRIS-W-1-5				1	X	X	X	
	6/16	1725			NS-TA-ARUPESTRIS-W-1-6				1	X	X	X	
	6/16	1730			NS-TA-ARUPESTRIS-W-1-7				1	X	X	X	
	6/16	1735			NS-TA-ARUPESTRIS-W-1-8				1	X	X	X	
	6/15	0955			NS-TA-ARUPESTRIS-W-3-1				1	X	X	X	
	6/16	1030			NS-TA-ARUPESTRIS-W-3-2				1	X	X	X	
	6/16	1035			NS-TA-ARUPESTRIS-W-3-3				1	X	X	X	
	6/16	1040			NS-TA-ARUPESTRIS-W-3-4				1	X	X	X	
	6/16	1045			NS-TA-ARUPESTRIS-W-3-5				1	X	X	X	
	6/16	1055			NS-TA-ARUPESTRIS-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Remarks
Brian Berner	6/17/05	1630	Angela Patrow	6.18.05	1030	
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time	Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container V/A - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

TL8234-200 (12/02)

7-10

EVERN TRENT STL

/ERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
npany:	Company:
ddress:	Address:
ontact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
ntract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 2 3 4 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

mpler's Name: rian Berner

Sampler's Signature: Brian Berner

ɔj. No.: 688375

Project Name: NSP/Ashland Lake Front Super Fund

No/Type of Containers²: P/O

ANALYSIS REQUESTED

ix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
	6/16	1100		X	NS-TA-ARUPESTRIS-W-3-7				1	X	X	X	
	6/16	1105			NS-TA-ARUPESTRIS-W-3-8				1	X	X	X	
	6/15	1300			NS-TA-MDOLOMIEUI-W-3-1				1	X	X	X	
	6/15	1305			NS-TA-MDOLOMIEUI-W-3-2				1	X	X	X	
	6/15	1310			NS-TA-MDOLOMIEUI-W-3-3				1	X	X	X	
	6/16	1015			NS-TA-MDOLOMIEUI-W-3-4				1	X	X	X	
	6/16	1020			NS-TA-MDOLOMIEUI-W-3-5				1	X	X	X	
	6/15	1600			NS-TA-MDOLOMIEUI-W-1-1				1	X	X	X	
	6/15	1605			NS-TA-MDOLOMIEUI-W-1-2				1	X	X	X	
	6/15	1610			NS-TA-MDOLOMIEUI-W-1-3				1	X	X	X	

nquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time	Remarks
Brian Berner	6/17/05	1630	Angela Patnoad	06.18.05	1030	
inquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time	
inquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time	Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

latrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
ontainer VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

8-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP / Ashland ~~Superfund~~ Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED: SIMPAH, LIPIDS, % SOLIDS

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	1615		X	NS-TA-MDOLOMIEUI-W-1-4				1	X	X	X	
	6/15	1620			NS-TA-MDOLOMIEUI-W-1-5				1	X	X	X	
	6/15	1625			NS-TA-MDOLOMIEUI-W-1-6				1	X	X	X	
	6/15	1630			NS-TA-MDOLOMIEUI-W-1-7				1	X	X	X	
	6/16	1740			NS-TA-ANEBULOSUS-W-1-1				1	X	X	X	
	6/16	1745			NS-TA-ANEBULOSUS-W-1-2				1	X	X	X	
	6/16	1750			NS-TA-ANEBULOSUS-W-1-3				1	X	X	X	
	6/16	1755			NS-TA-ANEBULOSUS-W-1-4				1	X	X	X	
	6/16	1800			NS-TA-ANEBULOSUS-W-1-5				1	X	X	X	
	6/16	1805			NS-TA-ANEBULOSUS-W-1-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnow	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container 1 - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

L8234-200 (12/02)

9-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 2568837.5
Project Name: NSP/Ashland Lakefront Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED: STM PAH, LIPIDS, % SOLIDS

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1840		X	NS-TA-ANEBULOSUS-W-1-7				1	X	X	X	
	6/16	1815			NS-TA-ANEBULOSUS-W-1-8				1	X	X	X	
	6/17	1030			NS-TA-ANEBULOSUS-W-3-1				1	X	X	X	
	6/17	1035			NS-TA-ANEBULOSUS-W-3-2				1	X	X	X	
	6/17	1040			NS-TA-ANEBULOSUS-W-3-3				1	X	X	X	
	6/17	1045			NS-TA-ANEBULOSUS-W-3-4				1	X	X	X	
	6/17	1050			NS-TA-ANEBULOSUS-W-3-5				1	X	X	X	
↓	6/17	1100		↓	NS-TA-SUITREUM-W-1-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Wyla Patton	6/18/05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT STL

Sample Data Summary Package
For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-1-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626614

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 25.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		25.4	

Printed on: 07/28/05 10:56 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-1-DUP1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626615

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 20.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		20.9	

Printed on: 07/28/05 10:56 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-2

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108055

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626616

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		22.0	

Printed on: 07/28/05 10:56 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-1-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626617

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 25.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		25.8	

Printed on: 07/28/05 10:56 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-1-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626618

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 20.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		20.6	

Printed on: 07/28/05 10:56 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-1-5

Lab Name: STL BURLINGTON Contract: 25688375 SDG No.: 108055

Lab Code: STLVT Case No.: 25000 Lab Sample ID: 626619

Matrix: TISSUE Client: URSCO9 Date Received: 06/18/05

% Solids: 23.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		23.8	

Printed on: 07/28/05 10:56 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-1-6

Lab Name: STL BURLINGTON Contract: 25688375 SDG No.: 108055

Lab Code: STLVT Case No.: 25000 Lab Sample ID: 626620

Matrix: TISSUE Client: URSCO9 Date Received: 06/18/05

% Solids: 23.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		23.3	

Printed on: 07/28/05 10:56 AM

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
SVITREUM-F-1-6REP

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626620DP

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	07/14/05	N/A	%	23.3		23.5		0.9

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-W-1-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626623

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		23.1	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-W-1-4

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108055

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626625

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 24.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		24.1	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-W-3-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626626

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		23.3	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-W-3-4

Lab Name: STL BURLINGTON Contract: 25688375 SDG No.: 108055

Lab Code: STLVT Case No.: 25000 Lab Sample ID: 626627

Matrix: TISSUE Client: URSCO9 Date Received: 06/18/05

% Solids: 23.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		23.7	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-1

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108055

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626628

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		22.8	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-2

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108055

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626629

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 26.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		26.1	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-3

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108055

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626630

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 22.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		22.0	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-3-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626631

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 25.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		25.0	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-3-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626632

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 26.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		26.1	

Printed on: 07/28/05 10:57 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
SVITREUM-F-3-6

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108055

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626633

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 26.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/14/05	N/A	%	1.0		26.4	

Printed on: 07/28/05 10:57 AM

SEVERN TRENT STL

Geotechnical Analysis
Sample Data Summary Package

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-1

Lab Name: STL BURLINGTON | **Contract:** 25688375 | **SDG No.:** 108055

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 626614

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.0	

Printed on: *07/13/05 08:40 AM*

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-DUP1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626615

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.3	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626616

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.0	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626617

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.5	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626618

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.3	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626619

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.9	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-1-6

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626620

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.4	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

SVITREUM-F-1-6REP

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626620DP

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	07/12/05		%	1.4		1.2		15

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-W-1-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626623

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.0	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-W-1-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626625

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.5	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-W-3-3

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108055

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626626

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.0	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-W-3-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626627

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.8	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626628

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	0.9	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626629

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.5	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626630

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.6	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626631

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.3	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626632

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.7	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SVITREUM-F-3-6

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626633

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.5	

Printed on: 07/13/05 08:40 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EB1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108055

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626634

Matrix: SOLID | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	0.1	U

Printed on: 07/13/05 08:40 AM

Percent Lipids Calculations

Date: 7/12/2005 **Analyst:** RH

Time: 1130 **ETR(s):** 108055

Client: URSCO9

Sample ID	Sample Weight (g)	Dish (g)	Dish/Residue (g)	Extract Final Volume (mLs)	Aliquot Used in Determination (mLs)	% Lipids
SBLKR8	40.00	0.8756	0.8756	10	1	< 0.1
LCSR8	40.00	0.8773	0.8773	10	1	< 0.1
626614	40.05	0.8757	0.9574	10	1	2.0
626615	39.99	0.8965	0.9874	10	1	2.3
626616	40.00	0.8855	0.9653	10	1	2.0
626617	40.01	0.8859	0.9466	10	1	1.5
626618	39.96	0.9998	1.0508	10	1	1.3
626619	40.05	0.8872	0.9627	10	1	1.9
626620	39.99	0.8830	0.9375	10	1	1.4
626620DP	40.02	0.8791	0.9276	10	1	1.2
626623	40.02	0.9973	1.0389	10	1	1.0
626625	39.98	1.0071	1.1058	10	1	2.5
626626	39.99	0.9938	1.0347	10	1	1.0
626627	40.01	0.9885	1.0614	10	1	1.8
626628	40.05	0.9965	1.0327	10	1	0.9
626629	40.00	0.8944	0.9957	10	1	2.5
626630	39.99	1.0034	1.0671	10	1	1.6
626631	40.04	0.8822	0.9347	10	1	1.3
626632	40.08	0.8750	0.9848	10	1	2.7
626633	39.98	0.8938	0.9936	10	1	2.5
626634	40.37	0.9938	0.9938	10	1	< 0.1
						#DIV/0!
						#DIV/0!
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SAMPLE DATA SUMMARY PACKAGE

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

ITREUMF1DUP1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626615

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626615

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.9	
91-57-6	2-Methylnaphthalene	4.3	
90-12-0	1-Methylnaphthalene	2.9	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-F13

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626617

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626617

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.5	
91-57-6	2-Methylnaphthalene	3.0	
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-F14

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626618

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626618

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.1	
91-57-6	2-Methylnaphthalene	2.3	
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.5	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.3	
129-00-0	Pyrene	2.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-F15

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626619

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626619

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.6	
91-57-6	2-Methylnaphthalene	3.5	
90-12-0	1-Methylnaphthalene	2.2	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-F31

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626628

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626628

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/27/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	22	
91-57-6	2-Methylnaphthalene	17	
90-12-0	1-Methylnaphthalene	31	
92-52-4	Biphenyl	3.3	
581-42-0	2,6 Dimethylnaphthalene	12	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	30	
2245-38-7	2,3,5 Trimethylnaphthalene	2.5	
86-73-7	Fluorene	11	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	2.6	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.2	
129-00-0	Pyrene	2.2	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-F32

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626629

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626629

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	53	
91-57-6	2-Methylnaphthalene	30	
90-12-0	1-Methylnaphthalene	49	
92-52-4	Biphenyl	4.6	
581-42-0	2,6 Dimethylnaphthalene	14	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	37	
2245-38-7	2,3,5 Trimethylnaphthalene	3.1	
86-73-7	Fluorene	13	
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	3.6	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	5.3	
129-00-0	Pyrene	3.8	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-F33

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626630

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626630

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	51	
91-57-6	2-Methylnaphthalene	28	
90-12-0	1-Methylnaphthalene	47	
92-52-4	Biphenyl	4.7	
581-42-0	2,6 Dimethylnaphthalene	13	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	35	
2245-38-7	2,3,5 Trimethylnaphthalene	2.4	
86-73-7	Fluorene	12	
85-01-8	Phenanthrene	13	
120-12-7	Anthracene	3.1	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.3	
129-00-0	Pyrene	2.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-W12

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626623

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626623

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	
91-57-6	2-Methylnaphthalene	2.2	
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-W14

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626625

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626625

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.0	
91-57-6	2-Methylnaphthalene	4.3	
90-12-0	1-Methylnaphthalene	2.6	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.2	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

SVITREUM-W33

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626626

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626626P

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 4000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.9	
91-57-6	2-Methylnaphthalene	2.0	J
90-12-0	1-Methylnaphthalene	3.1	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.6	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

SVITREUM-W34

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626627

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626627

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	54	
91-57-6	2-Methylnaphthalene	31	
90-12-0	1-Methylnaphthalene	61	
92-52-4	Biphenyl	5.6	
581-42-0	2,6 Dimethylnaphthalene	17	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	47	
2245-38-7	2,3,5 Trimethylnaphthalene	3.1	
86-73-7	Fluorene	15	
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	3.1	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.3	
129-00-0	Pyrene	3.1	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF11

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626614

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626614

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/21/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.0	
91-57-6	2-Methylnaphthalene	3.7	
90-12-0	1-Methylnaphthalene	2.4	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

VITREUMF11RE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626614R1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626614

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	
91-57-6	2-Methylnaphthalene	4.1	
90-12-0	1-Methylnaphthalene	2.7	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF12

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626616

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626616

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/21/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.2	
91-57-6	2-Methylnaphthalene	3.9	
90-12-0	1-Methylnaphthalene	2.6	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF12RE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626616R1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626616

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	
91-57-6	2-Methylnaphthalene	3.9	
90-12-0	1-Methylnaphthalene	2.6	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF16

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626620

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626620

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/27/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.1	
91-57-6	2-Methylnaphthalene	2.9	
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF34

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626631

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626631

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	19	
91-57-6	2-Methylnaphthalene	15	
90-12-0	1-Methylnaphthalene	27	
92-52-4	Biphenyl	2.8	
581-42-0	2,6 Dimethylnaphthalene	8.4	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	25	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	8.3	
85-01-8	Phenanthrene	8.5	
120-12-7	Anthracene	2.0	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.1	
129-00-0	Pyrene	2.9	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF34RE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626631R1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626631

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/29/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	19	
91-57-6	2-Methylnaphthalene	14	
90-12-0	1-Methylnaphthalene	28	
92-52-4	Biphenyl	2.6	
581-42-0	2,6 Dimethylnaphthalene	8.9	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	26	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	7.9	
85-01-8	Phenanthrene	9.1	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.5	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF35

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626632

Sample wt/vol: 40.1 (g/mL) G Lab File ID: 626632

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	22	
91-57-6	2-Methylnaphthalene	14	
90-12-0	1-Methylnaphthalene	17	
92-52-4	Biphenyl	2.1	
581-42-0	2,6 Dimethylnaphthalene	5.8	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	16	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	6.6	
85-01-8	Phenanthrene	8.7	
120-12-7	Anthracene	2.0	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.7	
129-00-0	Pyrene	3.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF35RE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626632R1

Sample wt/vol: 40.1 (g/mL) G Lab File ID: 626632

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	21	
91-57-6	2-Methylnaphthalene	13	
90-12-0	1-Methylnaphthalene	17	
92-52-4	Biphenyl	2.0	
581-42-0	2,6 Dimethylnaphthalene	5.8	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	17	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	6.5	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.4	
129-00-0	Pyrene	2.9	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF36

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626633

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626633

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	74	
91-57-6	2-Methylnaphthalene	61	
90-12-0	1-Methylnaphthalene	110	E
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	44	
208-96-8	Acenaphthylene	3.1	
83-32-9	Acenaphthene	100	E
2245-38-7	2,3,5 Trimethylnaphthalene	8.0	
86-73-7	Fluorene	35	
85-01-8	Phenanthrene	31	
120-12-7	Anthracene	7.9	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	8.1	
129-00-0	Pyrene	6.9	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF36DL

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626633D1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626633D

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.4

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	72	D
91-57-6	2-Methylnaphthalene	58	D
90-12-0	1-Methylnaphthalene	110	D
92-52-4	Biphenyl	11	D
581-42-0	2,6 Dimethylnaphthalene	43	D
208-96-8	Acenaphthylene	2.7	DJ
83-32-9	Acenaphthene	100	D
2245-38-7	2,3,5 Trimethylnaphthalene	7.9	D
86-73-7	Fluorene	33	D
85-01-8	Phenanthrene	38	D
120-12-7	Anthracene	7.1	D
832-69-9	1-Methylphenanthrene	2.9	U
206-44-0	Fluoranthene	7.4	D
129-00-0	Pyrene	7.2	D
56-55-3	Benzo(a)anthracene	2.9	U
218-01-9	Chrysene	2.9	U
205-99-2	Benzo(b)fluoranthene	2.9	U
207-08-9	Benzo(k)fluoranthene	2.9	U
192-97-2	Benzo(e)pyrene	2.9	U
50-32-8	Benzo(a)pyrene	2.9	U
198-55-0	Perylene	2.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.9	U
53-70-3	Dibenz(a,h)anthracene	2.9	U
191-24-2	Benzo(g,h,i)perylene	2.9	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

EB1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626634

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626634

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKR8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: SBLKR8

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0711R8

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/20/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLK8R

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: SBLKR8

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0711R8P

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 4000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF16MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626620MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626620M

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	15	
90-12-0	1-Methylnaphthalene	13	
92-52-4	Biphenyl	9.6	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	11	
2245-38-7	2,3,5 Trimethylnaphthalene	11	
86-73-7	Fluorene	11	
85-01-8	Phenanthrene	13	
120-12-7	Anthracene	12	
832-69-9	1-Methylphenanthrene	14	
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	14	
56-55-3	Benzo(a)anthracene	14	
218-01-9	Chrysene	10	
205-99-2	Benzo(b)fluoranthene	17	
207-08-9	Benzo(k)fluoranthene	13	
192-97-2	Benzo(e)pyrene	14	
50-32-8	Benzo(a)pyrene	14	
198-55-0	Perylene	13	
193-39-5	Indeno(1,2,3-cd)pyrene	22	
53-70-3	Dibenz(a,h)anthracene	23	
191-24-2	Benzo(g,h,i)perylene	18	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

VITREUMF16MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: 626620MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626620S

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/27/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	13	
90-12-0	1-Methylnaphthalene	12	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	11	
2245-38-7	2,3,5 Trimethylnaphthalene	11	
86-73-7	Fluorene	11	
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	12	
832-69-9	1-Methylphenanthrene	14	
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	14	
218-01-9	Chrysene	9.6	
205-99-2	Benzo(b)fluoranthene	17	
207-08-9	Benzo(k)fluoranthene	13	
192-97-2	Benzo(e)pyrene	14	
50-32-8	Benzo(a)pyrene	14	
198-55-0	Perylene	13	
193-39-5	Indeno(1,2,3-cd)pyrene	21	
53-70-3	Dibenz(a,h)anthracene	23	
191-24-2	Benzo(g,h,i)perylene	17	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

R8LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix: (soil/water) TISSUE Lab Sample ID: R8LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0711R8

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/20/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.9	
91-57-6	2-Methylnaphthalene	10	
90-12-0	1-Methylnaphthalene	10	
92-52-4	Biphenyl	9.3	
581-42-0	2,6 Dimethylnaphthalene	9.6	
208-96-8	Acenaphthylene	10	
83-32-9	Acenaphthene	9.5	
2245-38-7	2,3,5 Trimethylnaphthalene	9.7	
86-73-7	Fluorene	9.6	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	10	
832-69-9	1-Methylphenanthrene	11	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	8.8	
218-01-9	Chrysene	9.8	
205-99-2	Benzo(b)fluoranthene	8.2	
207-08-9	Benzo(k)fluoranthene	7.9	
192-97-2	Benzo(e)pyrene	9.2	
50-32-8	Benzo(a)pyrene	8.4	
198-55-0	Perylene	8.1	
193-39-5	Indeno(1,2,3-cd)pyrene	7.1	
53-70-3	Dibenz(a,h)anthracene	7.9	
191-24-2	Benzo(g,h,i)perylene	8.3	

FORM 2
TISSUE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Level: (low/med) LOW

	STLVT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	R8LCS	69	75	70	70	57				0
02	SBLKR8	67	72	69	65	49				0
03	VITREUMF11	64	65	59	38	45				0
04	VITREUMF12	61	68	68	42	47				0
05	EB1	82	80	75	88	82				0
06	VITREUMF34	54	60	70	43	48				0
07	VITREUMF35	54	59	67	41	51				0
08	VITREUMF36	54	58	63	37	50				0
09	SVITREUM-W12	62	65	70	44	57				0
10	SVITREUM-W14	63	80	88	55	60				0
11	SVITREUM-W34	63	69	70	44	57				0
12	SVITREUM-F31	71	76	77	48	66				0
13	SVITREUM-F32	82	88	93	56	68				0
14	SVITREUM-F33	73	79	82	49	67				0
15	SVITREUM-F13	69	76	76	49	60				0
16	SVITREUM-F14	67	72	75	47	60				0
17	SVITREUM-F15	61	64	64	41	50				0
18	VITREUMF16	66	74	75	45	58				0
19	VITREUMF16MS	66	72	73	46	53				0
20	VITREUMF16MS	75	80	84	52	68				0
21	VITREUMF11RE	59	63	64	37	48				0
22	ITREUMF1DUP1	47	56	66	49	62				0
23	SBLK8R	90	94	78	86	87				0
24	SVITREUM-W33	58	66	48	53	51				0
25	VITREUMF12RE	58	63	69	46	49				0
26	VITREUMF34RE	53	61	63	44	42				0
27	VITREUMF35RE	52	57	58	43	45				0
28	VITREUMF36DL	58	64	60	43	48				0
29										
30										

		QC LIMITS
S1	= Naphthalene-d8 (SS)	(20-130)
S2	= Acenaphthene-d10 (SS)	(20-130)
S3	= Phenanthrene-d10 (SS)	(20-130)
S4	= Chrysene-d12 (SS)	(20-130)
S5	= Perylene-d12 (SS)	(20-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix Spike - URSCO9 Sample No.: VITREUMF1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	10	2.1	13	109	60-140
2-Methylnaphthalene	10	2.9	15	121	60-140
1-Methylnaphthalene	10	0.0	13	130	60-140
Biphenyl	10	0.0	9.6	96	60-140
2,6 Dimethylnaphthalene	10	0.0	11	110	60-140
Acenaphthylene	10	0.0	12	120	60-140
Acenaphthene	10	0.0	11	110	60-140
2,3,5 Trimethylnaphthal	10	0.0	11	110	60-140
Fluorene	10	0.0	11	110	60-140
Phenanthrene	10	0.0	13	130	60-140
Anthracene	10	0.0	12	120	60-140
1-Methylphenanthrene	10	0.0	14	140	60-140
Fluoranthene	10	0.0	14	140	60-140
Pyrene	10	0.0	14	140	60-140
Benzo(a)anthracene	10	0.0	14	140	60-140
Chrysene	10	0.0	10	100	60-140
Benzo(b)fluoranthene	10	0.0	17	170*	60-140
Benzo(k)fluoranthene	10	0.0	13	130	60-140
Benzo(e)pyrene	10	0.0	14	140	60-140
Benzo(a)pyrene	10	0.0	14	140	60-140
Perylene	10	0.0	13	130	60-140
Indeno(1,2,3-cd)pyrene	10	0.0	22	220*	60-140
Dibenz(a,h)anthracene	10	0.0	23	230*	60-140
Benzo(g,h,i)perylene	10	0.0	18	180*	60-140

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

COMMENTS:

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix Spike - URSCO9 Sample No.: VITREUMF1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	12	99	10	40	60-140
2-Methylnaphthalene	10	13	101	18	40	60-140
1-Methylnaphthalene	10	12	120	8	40	60-140
Biphenyl	10	10	100	4	40	60-140
2,6 Dimethylnaphthalene	10	11	110	0	40	60-140
Acenaphthylene	10	12	120	0	40	60-140
Acenaphthene	10	11	110	0	40	60-140
2,3,5 Trimethylnaphthal	10	11	110	0	40	60-140
Fluorene	10	11	110	0	40	60-140
Phenanthrene	10	12	120	8	40	60-140
Anthracene	10	12	120	0	40	60-140
1-Methylphenanthrene	10	14	140	0	40	60-140
Fluoranthene	10	14	140	0	40	60-140
Pyrene	10	13	130	7	40	60-140
Benzo(a)anthracene	10	14	140	0	40	60-140
Chrysene	10	9.6	96	4	40	60-140
Benzo(b)fluoranthene	10	17	170*	0	40	60-140
Benzo(k)fluoranthene	10	13	130	0	40	60-140
Benzo(e)pyrene	10	14	140	0	40	60-140
Benzo(a)pyrene	10	14	140	0	40	60-140
Perylene	10	13	130	0	40	60-140
Indeno(1,2,3-cd)pyrene	10	21	210*	5	40	60-140
Dibenz(a,h)anthracene	10	23	230*	0	40	60-140
Benzo(g,h,i)perylene	10	17	170*	6	40	60-140

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

RPD: 0 out of 24 outside limits
Spike Recovery: 8 out of 48 outside limits

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Matrix Spike - STLVT Sample No.: R8LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		9.9	99	60-140
2-Methylnaphthalene	10		10	100	60-140
1-Methylnaphthalene	10		10	100	60-140
Biphenyl	10		9.3	93	60-140
2,6 Dimethylnaphthalene	10		9.6	96	60-140
Acenaphthylene	10		10	100	60-140
Acenaphthene	10		9.5	95	60-140
2,3,5 Trimethylnaphthal	10		9.7	97	60-140
Fluorene	10		9.6	96	60-140
Phenanthrene	10		10	100	60-140
Anthracene	10		10	100	60-140
1-Methylphenanthrene	10		11	110	60-140
Fluoranthene	10		11	110	60-140
Pyrene	10		10	100	60-140
Benzo(a)anthracene	10		8.8	88	60-140
Chrysene	10		9.8	98	60-140
Benzo(b)fluoranthene	10		8.2	82	60-140
Benzo(k)fluoranthene	10		7.9	79	60-140
Benzo(e)pyrene	10		9.2	92	60-140
Benzo(a)pyrene	10		8.4	84	60-140
Perylene	10		8.1	81	60-140
Indeno(1,2,3-cd)pyrene	10		7.1	71	60-140
Dibenz(a,h)anthracene	10		7.9	79	60-140
Benzo(g,h,i)perylene	10		8.3	83	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 24 outside limits

COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKR8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: B0711R8 Lab Sample ID: SBLKR8

Instrument ID: Z Date Extracted: 07/11/05

Matrix: (soil/water) TISSUE Date Analyzed: 07/20/05

Level:(low/med) LOW Time Analyzed: 1512

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	R8LCS	R8LCS	Q0711R8	07/20/05
02	VITREUMF11	626614	626614	07/21/05
03	VITREUMF12	626616	626616	07/21/05
04	EB1	626634	626634	07/27/05
05	VITREUMF34	626631	626631	07/27/05
06	VITREUMF35	626632	626632	07/27/05
07	VITREUMF36	626633	626633	07/27/05
08	SVITREUM-W12	626623	626623	07/27/05
09	SVITREUM-W14	626625	626625	07/27/05
10	SVITREUM-W34	626627	626627	07/27/05
11	SVITREUM-F31	626628	626628	07/27/05
12	SVITREUM-F32	626629	626629	07/27/05
13	SVITREUM-F33	626630	626630	07/27/05
14	SVITREUM-F13	626617	626617	07/27/05
15	SVITREUM-F14	626618	626618	07/27/05
16	SVITREUM-F15	626619	626619	07/27/05
17	VITREUMF16	626620	626620	07/27/05
18	VITREUMF16MS	626620MS	626620M	07/27/05
19	VITREUMF16MS	626620MD	626620S	07/27/05
20	VITREUMF11RE	626614R1	626614	07/27/05
21	ITREUMF1DUP1	626615	626615	07/27/05
22	VITREUMF12RE	626616R1	626616	07/29/05
23	VITREUMF34RE	626631R1	626631	07/29/05
24	VITREUMF35RE	626632R1	626632	07/29/05
25	VITREUMF36DL	626633D1	626633D	07/29/05
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLK8R

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: B0711R8P Lab Sample ID: SBLKR8

Instrument ID: Z Date Extracted: 07/11/05

Matrix: (soil/water) TISSUE Date Analyzed: 07/29/05

Level: (low/med) LOW Time Analyzed: 1445

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SVITREUM-W33	626626	626626P	07/29/05
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: ZHC05PS DFTPP Injection Date: 07/19/05

Instrument ID: Z DFTPP Injection Time: 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.5
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	57.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	25.8
365	Greater than 1.0% of mass 198	3.45
441	Present, but less than mass 443	13.3
442	Greater than 40.0% of mass 198	117.2
443	17.0 - 23.0% of mass 442	23.5 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SST500	SST500	ZHD500I2	07/19/05	1215
02	SST040	SST040	ZHD040	07/19/05	1250
03	SSTD200	SSTD200	ZHD200	07/19/05	1326
04	SSTD1000	SSTD1000	ZHD1000	07/19/05	1402
05	SSTD2000	SSTD2000	ZHD2000	07/19/05	1443
06					
07					
08					
09					
10					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: ZHD02PS DFTPP Injection Date: 07/20/05

Instrument ID: Z DFTPP Injection Time: 0417

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.7
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	53.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	26.8
365	Greater than 1.0% of mass 198	3.61
441	Present, but less than mass 443	8.3
442	Greater than 40.0% of mass 198	132.0
443	17.0 - 23.0% of mass 442	27.2 (20.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZHD500A	07/20/05	0449
02	R8LCS	R8LCS	Q0711R8	07/20/05	1437
03	SBLKR8	SBLKR8	B0711R8	07/20/05	1512
04					
05					
06					
07					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: ZHD04PS DFTPP Injection Date: 07/21/05

Instrument ID: Z DFTPP Injection Time: 0925

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	40.1	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	52.3	
70	Less than 2.0% of mass 69	0.4	(0.8)1
127	40.0 - 60.0% of mass 198	53.0	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.6	
275	10.0 - 30.0% of mass 198	24.8	
365	Greater than 1.0% of mass 198	3.35	
441	Present, but less than mass 443	18.3	
442	Greater than 40.0% of mass 198	126.4	
443	17.0 - 23.0% of mass 442	24.8	(19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZHD500B4	07/21/05	1317
02	VITREUMF11	626614	626614	07/21/05	1432
03	VITREUMF12	626616	626616	07/21/05	1543
04					
05					
06					
07					
08					
09					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: ZHF01PS DFTPP Injection Date: 07/26/05

Instrument ID: Z DFTPP Injection Time: 1115

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	56.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	24.0
365	Greater than 1.0% of mass 198	3.29
441	Present, but less than mass 443	4.5
442	Greater than 40.0% of mass 198	116.4
443	17.0 - 23.0% of mass 442	22.9 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD200	SSTD200	ZHF200	07/26/05	1302
02	SSTD500	SSTD500	ZHF500	07/26/05	1337
03	SSTD1000	SSTD1000	ZHF1000	07/26/05	1409
04	SSTD2000	SSTD2000	ZHF2000	07/26/05	1442
05	SSTD040	SSTD040	ZHF040I3	07/26/05	1548
06					
07					
08					
09					
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17					
18					
19					
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21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: ZHF03PS DFTPP Injection Date: 07/27/05

Instrument ID: Z DFTPP Injection Time: 0501

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	58.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.0% of mass 198	3.47
441	Present, but less than mass 443	19.0
442	Greater than 40.0% of mass 198	110.2
443	17.0 - 23.0% of mass 442	21.7 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	ZHF500A	07/27/05	0524
02	EB1	626634	626634	07/27/05	0606
03	VITREUMF34	626631	626631	07/27/05	0713
04	VITREUMF35	626632	626632	07/27/05	0746
05	VITREUMF36	626633	626633	07/27/05	0818
06	SVITREUM-W12	626623	626623	07/27/05	0851
07	SVITREUM-W14	626625	626625	07/27/05	0924
08	SVITREUM-W34	626627	626627	07/27/05	1030
09	SVITREUM-F31	626628	626628	07/27/05	1103
10	SVITREUM-F32	626629	626629	07/27/05	1136
11	SVITREUM-F33	626630	626630	07/27/05	1209
12	SVITREUM-F13	626617	626617	07/27/05	1242
13	SVITREUM-F14	626618	626618	07/27/05	1315
14	SVITREUM-F15	626619	626619	07/27/05	1349
15	VITREUMF16	626620	626620	07/27/05	1422
16	VITREUMF16MS	626620MS	626620M	07/27/05	1455
17	VITREUMF16MS	626620MD	626620S	07/27/05	1528
18	VITREUMF11RE	626614R1	626614	07/27/05	1601
19	ITREUMF1DUP1	626615	626615	07/27/05	1634
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID: ZHH01PS DFTPP Injection Date: 07/29/05

Instrument ID: Z DFTPP Injection Time: 0937

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	58.1
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	55.4
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	24.6
365	Greater than 1.0% of mass 198	3.63
441	Present, but less than mass 443	18.1
442	Greater than 40.0% of mass 198	114.0
443	17.0 - 23.0% of mass 442	22.7 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD2000	SSTD2000	ZHH2000	07/29/05	1001
02	SSTD200	SSTD200	ZHH200	07/29/05	1034
03	SSTD1000	SSTD1000	ZHH1000	07/29/05	1122
04	SSTD500	SSTD500	ZHH500	07/29/05	1154
05	SSTD040	SSTD040	ZHH040	07/29/05	1227
06	SBLK8R	SBLKR8	B0711R8P	07/29/05	1445
07	SVITREUM-W33	626626	626626P	07/29/05	1518
08	VITREUMF12RE	626616R1	626616	07/29/05	1551
09	VITREUMF34RE	626631R1	626631	07/29/05	1624
10	VITREUMF35RE	626632R1	626632	07/29/05	1656
11	VITREUMF36DL	626633D1	626633D	07/29/05	1729
12					
13					
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6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Instrument ID: Z Calibration Date(s): 07/19/05 07/19/05

Calibration Time(s): 1215 1443

LAB FILE ID: RRF40 =ZHD040 RRF200=ZHD200
RRF500=ZHD500I2 RRF1000=ZHD1000 RRF2000=ZHD2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.092	1.015	0.939	0.907	0.849	0.960	9.9*
2-Methylnaphthalene *	0.702	0.682	0.652	0.628	0.587	0.650	7.0*
1-Methylnaphthalene *	0.648	0.621	0.598	0.571	0.533	0.594	7.5*
Biphenyl *	1.863	1.746	1.597	1.579	1.502	1.657	8.7*
2,6 Dimethylnaphthalene *	1.103	1.075	1.048	1.068	1.024	1.064	2.8*
Acenaphthylene *	1.798	1.749	1.741	1.740	1.749	1.755	1.4*
Acenaphthene *	1.188	1.176	1.090	1.101	1.052	1.121	5.2*
2,3,5 Trimethylnaphthalene *	0.968	0.944	0.937	0.940	0.934	0.945	1.4*
Fluorene *	1.368	1.318	1.270	1.287	1.256	1.300	3.4*
Phenanthrene *	1.599	1.214	1.182	1.181	1.089	1.253	15.9*
Anthracene *	0.978	0.740	1.011	1.013	1.007	0.950	12.4*
1-Methylphenanthrene *	0.728	0.661	0.679	0.674	0.654	0.679	4.2*
Fluoranthene *	0.864	0.819	0.820	0.825	0.787	0.823	3.3*
Pyrene *	1.058	0.946	1.025	1.033	1.017	1.016	4.2*
Benzo(a)anthracene *	1.014	0.992	1.047	0.945	0.970	0.994	4.0*
Chrysene *	1.766	1.696	1.393	1.364	1.278	1.499	14.5*
Benzo(b)fluoranthene *	1.807	1.661	1.674	1.330	1.239	1.542	15.9*
Benzo(k)fluoranthene *	2.307	1.897	1.903	1.646	1.590	1.869	15.2*
Benzo(e)pyrene *	1.356	1.357	1.330	1.253	1.189	1.297	5.7*
Benzo(a)pyrene *	2.065	1.745	1.704	1.473	1.416	1.681	15.3*
Perylene *	2.027	1.796	1.734	1.559	1.498	1.723	12.2*
Indeno(1,2,3-cd)pyrene *	0.792	0.849	1.134	0.929	0.991	0.939	14.1*
Dibenz(a,h)anthracene *	0.880	0.995	1.307	1.174	1.227	1.117	15.7*
Benzo(g,h,i)perylene *	1.403	1.540	1.714	1.588	1.562	1.561	7.1*
Naphthalene-d8(SS) *	1.652	1.726	1.629	1.651	1.755	1.683	3.2*
Acenaphthene-d10(SS) *	0.783	0.804	0.782	0.767	0.803	0.788	2.0*
Phenanthrene-d10(SS) *	1.238	1.356	1.280	1.271	1.372	1.303	4.4*
Chrysene-d12(SS) *	1.149	1.164	1.027	1.192	1.210	1.148	6.2*
Perylene-d12(SS) *	1.119	1.102	1.073	1.007	1.057	1.072	4.1*

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

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Instrument ID: Z Calibration Date(s): 07/26/05 07/26/05

Calibration Time(s): 1302 1548

LAB FILE ID: RRF40 =ZHF040I3 RRF200=ZHF200
RRF500=ZHF500 RRF1000=ZHF1000 RRF2000=ZHF2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.120	1.088	0.995	0.952	0.910	1.013	8.8*
2-Methylnaphthalene *	0.799	0.820	0.740	0.721	0.678	0.752	7.7*
1-Methylnaphthalene *	0.763	0.765	0.693	0.670	0.631	0.704	8.3*
Biphenyl *	1.924	1.807	1.599	1.546	1.471	1.669	11.3*
2,6 Dimethylnaphthalene *	1.159	1.231	1.132	1.094	1.101	1.143	4.9*
Acenaphthylene *	1.875	2.065	1.854	1.811	1.815	1.884	5.6*
Acenaphthene *	1.309	1.400	1.268	1.232	1.198	1.281	6.1*
2,3,5 Trimethylnaphthalene *	1.130	1.225	1.098	1.087	1.057	1.119	5.8*
Fluorene *	1.585	1.588	1.428	1.392	1.350	1.469	7.6*
Phenanthrene *	1.556	1.333	1.179	1.133	1.074	1.255	15.4*
Anthracene *	1.114	1.094	0.987	0.961	0.976	1.026	7.0*
1-Methylphenanthrene *	0.872	0.846	0.766	0.760	0.749	0.799	7.0*
Fluoranthene *	1.155	1.089	0.990	0.988	0.967	1.038	7.8*
Pyrene *	1.184	1.133	1.016	1.031	1.002	1.073	7.5*
Benzo(a)anthracene *	1.359	1.307	1.185	1.134	1.061	1.209	10.2*
Chrysene *	2.005	1.677	1.458	1.355	1.246	1.548	19.4*
Benzo(b)fluoranthene *	0.998	1.054	0.923	0.901	0.838	0.943	9.0*
Benzo(k)fluoranthene *	1.745	1.613	1.400	1.325	1.226	1.462	14.6*
Benzo(e)pyrene *	1.418	1.235	1.058	1.017	0.938	1.133	17.0*
Benzo(a)pyrene *	1.447	1.119	0.970	0.935	0.871	1.068	21.6*
Perylene *	1.725	1.264	1.092	1.065	1.071	1.243	22.6*
Indeno(1,2,3-cd)pyrene *	0.722	0.704	0.642	0.645	0.604	0.663	7.3*
Dibenz(a,h)anthracene *	0.481	0.366	0.459	0.417	0.372	0.419	12.2*
Benzo(g,h,i)perylene *	0.856	0.788	0.688	0.713	0.694	0.748	9.7*
Naphthalene-d8(SS) *	1.331	1.181	1.251	1.242	1.186	1.238	4.9*
Acenaphthene-d10(SS) *	0.761	0.690	0.734	0.732	0.693	0.722	4.2*
Phenanthrene-d10(SS) *	1.272	1.166	1.254	1.284	1.242	1.244	3.7*
Chrysene-d12(SS) *	1.441	1.333	1.465	1.471	1.504	1.443	4.5*
Perylene-d12(SS) *	0.975	0.866	0.920	0.927	0.882	0.914	4.7*

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

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Instrument ID: Z Calibration Date(s): 07/29/05 07/29/05

Calibration Time(s): 1001 1227

LAB FILE ID: RRF40 =ZHH040 RRF200=ZHH200
RRF500=ZHH500 RRF1000=ZHH1000 RRF2000=ZHH2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.115	1.090	1.046	0.987	0.883	1.024	9.1*
2-Methylnaphthalene *	0.792	0.835	0.799	0.747	0.685	0.772	7.4*
1-Methylnaphthalene *	0.704	0.779	0.735	0.694	0.621	0.707	8.2*
Biphenyl *	1.729	1.703	1.651	1.522	1.336	1.588	10.2*
2,6 Dimethylnaphthalene *	1.042	1.152	1.148	1.063	0.989	1.079	6.5*
Acenaphthylene *	1.806	2.067	2.032	1.914	1.802	1.924	6.4*
Acenaphthene *	1.206	1.263	1.245	1.157	1.046	1.183	7.3*
2,3,5 Trimethylnaphthalene *	0.987	1.107	1.089	1.060	0.965	1.042	6.0*
Fluorene *	1.421	1.582	1.566	1.476	1.336	1.476	7.0*
Phenanthrene *	1.370	1.335	1.310	1.324	1.149	1.298	6.6*
Anthracene *	0.946	1.126	1.105	1.217	1.113	1.101	8.9*
1-Methylphenanthrene *	0.759	0.845	0.831	0.876	0.807	0.824	5.3*
Fluoranthene *	1.043	1.107	1.114	1.233	1.123	1.124	6.1*
Pyrene *	1.035	1.128	1.150	1.264	1.157	1.147	7.1*
Benzo(a)anthracene *	0.890	1.108	1.014	1.028	1.011	1.010	7.7*
Chrysene *	1.765	1.744	1.536	1.485	1.298	1.566	12.4*
Benzo(b)fluoranthene *	0.838	0.811	0.770	0.798	0.833	0.810	3.4*
Benzo(k)fluoranthene *	1.430	1.764	1.618	1.624	1.480	1.583	8.3*
Benzo(e)pyrene *	1.030	1.099	1.033	0.982	0.964	1.022	5.1*
Benzo(a)pyrene *	1.181	1.136	1.096	1.024	0.974	1.082	7.8*
Perylene *	1.370	1.274	1.255	1.138	1.117	1.231	8.5*
Indeno(1,2,3-cd)pyrene *	0.568	0.706	0.753	0.815	0.830	0.734	14.3*
Dibenz(a,h)anthracene *	0.370	0.493	0.535	0.611	0.627	0.527	19.6*
Benzo(g,h,i)perylene *	0.609	0.729	0.852	0.828	0.843	0.772	13.4*
Naphthalene-d8(SS) *	1.239	1.242	1.166	1.117	1.141	1.181	4.8*
Acenaphthene-d10(SS) *	0.740	0.776	0.716	0.704	0.729	0.733	3.8*
Phenanthrene-d10(SS) *	1.209	1.258	1.226	1.141	1.238	1.214	3.7*
Chrysene-d12(SS) *	1.510	1.492	1.427	1.232	1.184	1.369	11.1*
Perylene-d12(SS) *	0.997	0.929	0.942	0.823	0.802	0.899	9.2*

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Instrument ID: Z Calibration Date: 07/20/05 Time: 0449

Lab File ID: ZHD500A Init. Calib. Date(s): 07/19/05 07/19/05

Init. Calib. Times: 1215 1443

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	0.960	0.984	0.2	2.5	25.0
2-Methylnaphthalene	0.650	0.672	0.2	3.4	25.0
1-Methylnaphthalene	0.594	0.616	0.2	3.7	25.0
Biphenyl	1.657	1.661	0.2	0.2	25.0
2,6 Dimethylnaphthalene	1.064	1.082	0.2	1.7	25.0
Acenaphthylene	1.755	1.792	0.2	2.1	25.0
Acenaphthene	1.121	1.137	0.2	1.4	25.0
2,3,5 Trimethylnaphthalene	0.945	0.962	0.2	1.8	25.0
Fluorene	1.300	1.326	0.2	2.0	25.0
Phenanthrene	1.253	1.263	0.2	0.8	25.0
Anthracene	0.950	1.034	0.2	8.8	25.0
1-Methylphenanthrene	0.679	0.705	0.2	3.8	25.0
Fluoranthene	0.823	0.836	0.2	1.6	25.0
Pyrene	1.016	1.064	0.2	4.7	25.0
Benzo(a)anthracene	0.994	1.099	0.2	10.6	25.0
Chrysene	1.499	1.481	0.2	1.2	25.0
Benzo(b)fluoranthene	1.542	1.772	0.2	14.9	25.0
Benzo(k)fluoranthene	1.869	1.996	0.2	6.8	25.0
Benzo(e)pyrene	1.297	1.422	0.2	9.6	25.0
Benzo(a)pyrene	1.681	1.750	0.2	4.1	25.0
Perylene	1.723	1.830	0.2	6.2	25.0
Indeno(1,2,3-cd)pyrene	0.939	1.117	0.2	19.0	25.0
Dibenz(a,h)anthracene	1.117	1.227	0.2	9.8	25.0
Benzo(g,h,i)perylene	1.561	1.662	0.2	6.5	25.0
Naphthalene-d8(SS)	1.683	1.603	0.2	4.8	25.0
Acenaphthene-d10(SS)	0.788	0.759	0.2	3.7	25.0
Phenanthrene-d10(SS)	1.303	1.229	0.2	5.7	25.0
Chrysene-d12(SS)	1.148	0.968	0.2	15.7	25.0
Perylene-d12(SS)	1.072	1.029	0.2	4.0	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Instrument ID: Z Calibration Date: 07/21/05 Time: 1317

Lab File ID: ZHD500B4 Init. Calib. Date(s): 07/19/05 07/19/05

Init. Calib. Times: 1215 1443

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	0.960	0.939	0.2	2.2	25.0
2-Methylnaphthalene	0.650	0.647	0.2	0.5	25.0
1-Methylnaphthalene	0.594	0.590	0.2	0.7	25.0
Biphenyl	1.657	1.661	0.2	0.2	25.0
2,6 Dimethylnaphthalene	1.064	1.080	0.2	1.5	25.0
Acenaphthylene	1.755	1.754	0.2	0.0	25.0
Acenaphthene	1.121	1.158	0.2	3.3	25.0
2,3,5 Trimethylnaphthalene	0.945	0.968	0.2	2.4	25.0
Fluorene	1.300	1.331	0.2	2.4	25.0
Phenanthrene	1.253	1.124	0.2	10.3	25.0
Anthracene	0.950	0.843	0.2	11.3	25.0
1-Methylphenanthrene	0.679	0.674	0.2	0.7	25.0
Fluoranthene	0.823	0.831	0.2	1.0	25.0
Pyrene	1.016	0.930	0.2	8.5	25.0
Benzo(a)anthracene	0.994	0.944	0.2	5.0	25.0
Chrysene	1.499	1.507	0.2	0.5	25.0
Benzo(b)fluoranthene	1.542	1.351	0.2	12.4	25.0
Benzo(k)fluoranthene	1.869	1.828	0.2	2.2	25.0
Benzo(e)pyrene	1.297	1.340	0.2	3.3	25.0
Benzo(a)pyrene	1.681	1.641	0.2	2.4	25.0
Perylene	1.723	1.815	0.2	5.3	25.0
Indeno(1,2,3-cd)pyrene	0.939	0.787	0.2	16.2	25.0
Dibenz(a,h)anthracene	1.117	1.139	0.2	2.0	25.0
Benzo(g,h,i)perylene	1.561	1.586	0.2	1.6	25.0
Naphthalene-d8(SS)	1.683	1.731	0.2	2.8	25.0
Acenaphthene-d10(SS)	0.788	0.776	0.2	1.5	25.0
Phenanthrene-d10(SS)	1.303	1.246	0.2	4.4	25.0
Chrysene-d12(SS)	1.148	1.115	0.2	2.9	25.0
Perylene-d12(SS)	1.072	1.045	0.2	2.5	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Instrument ID: Z Calibration Date: 07/27/05 Time: 0524

Lab File ID: ZHF500A Init. Calib. Date(s): 07/26/05 07/26/05

Init. Calib. Times: 1302 1548

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.013	1.004	0.2	0.9	25.0
2-Methylnaphthalene	0.752	0.742	0.2	1.3	25.0
1-Methylnaphthalene	0.704	0.735	0.2	4.4	25.0
Biphenyl	1.669	1.602	0.2	4.0	25.0
2,6 Dimethylnaphthalene	1.143	1.168	0.2	2.2	25.0
Acenaphthylene	1.884	1.807	0.2	4.1	25.0
Acenaphthene	1.281	1.293	0.2	0.9	25.0
2,3,5 Trimethylnaphthalene	1.119	1.053	0.2	5.9	25.0
Fluorene	1.469	1.469	0.2	0.0	25.0
Phenanthrene	1.255	1.288	0.2	2.6	25.0
Anthracene	1.026	1.067	0.2	4.0	25.0
1-Methylphenanthrene	0.799	0.798	0.2	0.1	25.0
Fluoranthene	1.038	1.047	0.2	0.9	25.0
Pyrene	1.073	1.101	0.2	2.6	25.0
Benzo(a)anthracene	1.209	1.107	0.2	8.4	25.0
Chrysene	1.548	1.524	0.2	1.6	25.0
Benzo(b)fluoranthene	0.943	0.807	0.2	14.4	25.0
Benzo(k)fluoranthene	1.462	1.475	0.2	0.9	25.0
Benzo(e)pyrene	1.133	1.035	0.2	8.6	25.0
Benzo(a)pyrene	1.068	1.002	0.2	6.2	25.0
Perylene	1.243	1.124	0.2	9.6	25.0
Indeno(1,2,3-cd)pyrene	0.663	0.616	0.2	7.1	25.0
Dibenz(a,h)anthracene	0.419	0.377	0.2	10.0	25.0
Benzo(g,h,i)perylene	0.748	0.690	0.2	7.8	25.0
Naphthalene-d8(SS)	1.238	1.266	0.2	2.3	25.0
Acenaphthene-d10(SS)	0.722	0.761	0.2	5.4	25.0
Phenanthrene-d10(SS)	1.244	1.227	0.2	1.4	25.0
Chrysene-d12(SS)	1.443	1.492	0.2	3.4	25.0
Perylene-d12(SS)	0.914	0.947	0.2	3.6	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Instrument ID: Z Calibration Date: 07/29/05 Time: 1154

Lab File ID: ZHH500 Init. Calib. Date(s): 07/29/05 07/29/05

Init. Calib. Times: 1001 1227

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.024	1.046	0.2	2.1	25.0
2-Methylnaphthalene	0.772	0.799	0.2	3.5	25.0
1-Methylnaphthalene	0.707	0.735	0.2	4.0	25.0
Biphenyl	1.588	1.651	0.2	4.0	25.0
2,6 Dimethylnaphthalene	1.079	1.148	0.2	6.4	25.0
Acenaphthylene	1.924	2.032	0.2	5.6	25.0
Acenaphthene	1.183	1.245	0.2	5.2	25.0
2,3,5 Trimethylnaphthalene	1.042	1.089	0.2	4.5	25.0
Fluorene	1.476	1.566	0.2	6.1	25.0
Phenanthrene	1.298	1.310	0.2	0.9	25.0
Anthracene	1.101	1.105	0.2	0.4	25.0
1-Methylphenanthrene	0.824	0.831	0.2	0.8	25.0
Fluoranthene	1.124	1.114	0.2	0.9	25.0
Pyrene	1.147	1.150	0.2	0.3	25.0
Benzo(a)anthracene	1.010	1.014	0.2	0.4	25.0
Chrysene	1.566	1.536	0.2	1.9	25.0
Benzo(b)fluoranthene	0.810	0.770	0.2	4.9	25.0
Benzo(k)fluoranthene	1.583	1.618	0.2	2.2	25.0
Benzo(e)pyrene	1.022	1.033	0.2	1.1	25.0
Benzo(a)pyrene	1.082	1.096	0.2	1.3	25.0
Perylene	1.231	1.255	0.2	1.9	25.0
Indeno(1,2,3-cd)pyrene	0.734	0.753	0.2	2.6	25.0
Dibenz(a,h)anthracene	0.527	0.535	0.2	1.5	25.0
Benzo(g,h,i)perylene	0.772	0.852	0.2	10.4	25.0
Naphthalene-d8(SS)	1.181	1.166	0.2	1.3	25.0
Acenaphthene-d10(SS)	0.733	0.716	0.2	2.3	25.0
Phenanthrene-d10(SS)	1.214	1.226	0.2	1.0	25.0
Chrysene-d12(SS)	1.369	1.427	0.2	4.2	25.0
Perylene-d12(SS)	0.899	0.942	0.2	4.8	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHD500A Date Analyzed: 07/20/05

Instrument ID: Z Time Analyzed: 0449

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	154369	5.89	73065	9.21	64187	10.20
	UPPER LIMIT	308738	6.39	146130	9.71	128374	10.70
	LOWER LIMIT	77184	5.39	36532	8.71	32094	9.70
	STLVT SAMPLE NO.						
01	R8LCS	113533	5.89	57755	9.21	67965	10.20
02	SBLKR8	118226	5.87	59651	9.21	73036	10.20
03							
04							
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHD500A Date Analyzed: 07/20/05

Instrument ID: Z Time Analyzed: 0449

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	118341	12.05	80108	17.26	55183	19.72
	UPPER LIMIT	236682	12.55	160216	17.76	110366	20.22
	LOWER LIMIT	59170	11.55	40054	16.76	27592	19.22
	STLVT SAMPLE NO.						
01	R8LCS	87359	12.05	54796	17.26	53696	19.72
02	SBLKR8	92569	12.05	44669	17.25	47455	19.72
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHD500A Date Analyzed: 07/20/05

Instrument ID: Z Time Analyzed: 0449

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	85194	19.87				
	UPPER LIMIT	170388	20.37				
	LOWER LIMIT	42597	19.37				
	STLVT SAMPLE NO.						
01	R8LCS	46978	19.87				
02	SBLKR8	35815*	19.85				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHD500B4 Date Analyzed: 07/21/05

Instrument ID: Z Time Analyzed: 1317

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	152575	5.87	68353	9.19	58753	10.18
	UPPER LIMIT	305150	6.37	136706	9.69	117506	10.68
	LOWER LIMIT	76288	5.37	34176	8.69	29376	9.68
	STLVT SAMPLE NO.						
01	VITREUMF11	102845	5.87	46816	9.19	62199	10.18
02	VITREUMF12	113549	5.87	56639	9.19	71469	10.18
03							
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHD500B4 Date Analyzed: 07/21/05

Instrument ID: Z Time Analyzed: 1317

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	109813	12.03	63253	17.26	37810	19.70
	UPPER LIMIT	219626	12.53	126506	17.76	75620	20.20
	LOWER LIMIT	54906	11.53	31626	16.76	18905	19.20
	STLVT SAMPLE NO.						
01	VITREUMF11	68307	12.02	58521	17.25	93263*	19.70
02	VITREUMF12	90678	12.03	72186	17.26	103846*	19.72
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHD500B4 Date Analyzed: 07/21/05

Instrument ID: Z Time Analyzed: 1317

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	59275	19.85				
	UPPER LIMIT	118550	20.35				
	LOWER LIMIT	29638	19.35				
	STLVT SAMPLE NO.						
01	VITREUMF11	66295	19.85				
02	VITREUMF12	77039	19.85				
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IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHF500A Date Analyzed: 07/27/05

Instrument ID: Z Time Analyzed: 0524

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	342011	5.96	205664	9.48	180066	10.54
	UPPER LIMIT	684022	6.46	411328	9.98	360132	11.04
	LOWER LIMIT	171006	5.46	102832	8.98	90033	10.04
	STLVT SAMPLE NO.						
01	EB1	234426	5.96	138210	9.48	150961	10.54
02	VITREUMF34	179985	5.96	119691	9.48	175616	10.54
03	VITREUMF35	183773	5.96	122770	9.48	180671	10.54
04	VITREUMF36	183948	5.96	120296	9.48	180780	10.54
05	SVITREUM-W12	202794	5.96	128325	9.48	172160	10.54
06	SVITREUM-W14	197676	5.96	150919	9.48	164131	10.54
07	SVITREUM-W34	192741	5.96	127154	9.48	160953	10.54
08	SVITREUM-F31	202984	5.96	131502	9.48	150852	10.54
09	SVITREUM-F32	235805	5.96	152733	9.48	151157	10.54
10	SVITREUM-F33	205945	5.96	135195	9.48	149234	10.54
11	SVITREUM-F13	212976	5.96	142049	9.48	162957	10.54
12	SVITREUM-F14	216417	5.96	140697	9.48	169985	10.54
13	SVITREUM-F15	194573	5.96	123642	9.48	168291	10.54
14	VITREUMF16	211374	5.96	140976	9.48	167472	10.54
15	VITREUMF16MS	221457	5.96	144871	9.48	176602	10.54
16	VITREUMF16MS	219677	5.96	141098	9.48	154105	10.54
17	VITREUMF11RE	207391	5.96	133068	9.48	185880	10.54
18	ITREUMF1DUP1	134666*	5.96	95184*	9.48	149487	10.54
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHF500A Date Analyzed: 07/27/05

Instrument ID: Z Time Analyzed: 0524

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	331595	12.50	173003	18.06	77306	20.68
	UPPER LIMIT	663190	13.00	346006	18.56	154612	21.18
	LOWER LIMIT	165798	12.00	86502	17.56	38653	20.18
	STLVT SAMPLE NO.						
01	EB1	209224	12.50	86185*	18.06	43782	20.68
02	VITREUMF34	224798	12.50	155235	18.06	162029*	20.68
03	VITREUMF35	222934	12.50	140938	18.06	154705*	20.68
04	VITREUMF36	210659	12.50	122809	18.06	147449	20.68
05	SVITREUM-W12	221462	12.50	125499	18.06	127638	20.68
06	SVITREUM-W14	265939	12.50	170319	18.06	137458	20.68
07	SVITREUM-W34	208651	12.50	124039	18.06	126781	20.68
08	SVITREUM-F31	215172	12.50	121288	18.06	113590	20.68
09	SVITREUM-F32	258415	12.50	166811	18.06	133278	20.68
10	SVITREUM-F33	225982	12.50	135133	18.06	122201	20.68
11	SVITREUM-F13	228898	12.50	139982	18.06	126997	20.68
12	SVITREUM-F14	234571	12.50	146088	18.06	138523	20.68
13	SVITREUM-F15	199842	12.50	119844	18.06	131810	20.68
14	VITREUMF16	232493	12.50	134736	18.06	134038	20.68
15	VITREUMF16MS	237745	12.50	145129	18.06	142065	20.68
16	VITREUMF16MS	239090	12.50	140656	18.06	119669	20.68
17	VITREUMF11RE	218125	12.50	135201	18.06	162326*	20.68
18	ITREUMF1DUP1	181532	12.50	118543	18.06	107065	20.68
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHF500A Date Analyzed: 07/27/05

Instrument ID: Z Time Analyzed: 0524

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	109810	20.84				
	UPPER LIMIT	219620	21.34				
	LOWER LIMIT	54905	20.34				
	STLVT SAMPLE NO.						
01	EB1	51362*	20.84				
02	VITREUMF34	109343	20.84				
03	VITREUMF35	112137	20.84				
04	VITREUMF36	104239	20.84				
05	SVITREUM-W12	103628	20.84				
06	SVITREUM-W14	117291	20.84				
07	SVITREUM-W34	101931	20.84				
08	SVITREUM-F31	106092	20.84				
09	SVITREUM-F32	128077	20.84				
10	SVITREUM-F33	116077	20.84				
11	SVITREUM-F13	107921	20.84				
12	SVITREUM-F14	118728	20.84				
13	SVITREUM-F15	92943	20.84				
14	VITREUMF16	110511	20.84				
15	VITREUMF16MS	106819	20.84				
16	VITREUMF16MS	114832	20.84				
17	VITREUMF11RE	109621	20.84				
18	ITREUMF1DUP1	94815	20.84				
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21							
22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHH500 Date Analyzed: 07/29/05

Instrument ID: Z Time Analyzed: 1154

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	268607	5.87	164994	9.39	153593	10.42
	UPPER LIMIT	537214	6.37	329988	9.89	307186	10.92
	LOWER LIMIT	134304	5.37	82497	8.89	76796	9.92
	STLVT SAMPLE NO.						
01	SBLK8R	228149	5.89	146309	9.39	145260	10.45
02	SVITREUM-W33	198360	5.89	137452	9.39	194402	10.45
03	VITREUMF12RE	194161	5.87	129932	9.39	192378	10.45
04	VITREUMF34RE	181909	5.87	128162	9.39	195413	10.45
05	VITREUMF35RE	179609	5.87	120424	9.39	197642	10.45
06	VITREUMF36DL	128025*	5.87	86700	9.39	181132	10.45
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IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHH500 Date Analyzed: 07/29/05

Instrument ID: Z Time Analyzed: 1154

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	282346	12.39	166354	17.93	77701	20.55
	UPPER LIMIT	564692	12.89	332708	18.43	155402	21.05
	LOWER LIMIT	141173	11.89	83177	17.43	38850	20.05
	STLVT SAMPLE NO.						
01	SBLK8R	209219	12.39	88152	17.93	47578	20.55
02	SVITREUM-W33	170077	12.39	178429	18.13	158343*	20.70
03	VITREUMF12RE	245454	12.42	175235	17.95	176907*	20.58
04	VITREUMF34RE	226038	12.42	174035	17.95	184275*	20.58
05	VITREUMF35RE	211320	12.42	161145	17.95	176267*	20.58
06	VITREUMF36DL	140666*	12.42	102539	17.95	159952*	20.56
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108055

Lab File ID (Standard): ZHH500 Date Analyzed: 07/29/05

Instrument ID: Z Time Analyzed: 1154

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	109783	20.70				
	UPPER LIMIT	219566	21.20				
	LOWER LIMIT	54892	20.20				
	STLVT SAMPLE NO.						
01	SBLK8R	58387	20.70				
02	SVITREUM-W33	114608	20.85				
03	VITREUMF12RE	121647	20.72				
04	VITREUMF34RE	109396	20.72				
05	VITREUMF35RE	113151	20.72				
06	VITREUMF36DL	76372	20.72				
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IS7 (PRY) = Perylene-d12

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

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

STL Burlington
Colchester, Vermont

Sample Data Summary Package

SDG: 108066

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

August 9, 2005

Mr. Paul Sklar
URS Corporation
10200 Innovation Drive; Suite 500
Milwaukee, WI 53226

Re: Laboratory Project No. 25000
Case: 25000; SDG: 108066

Dear Mr. Sklar:

Enclosed are the analytical results for samples received by STL Burlington on June 18, 2005. This report is sequentially numbered starting with page 0001 and ending with page 0615. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 06/18/05 ETR No: 108066		
626685	SVITREUM-W-3-1	06/15/05	Tissue
626686	SVITREUM-W-3-2	06/15/05	Tissue
626687	MMACROLEPIDOTUM-F-1-1	06/15/05	Tissue
626688	MMACROLEPIDOTUMF11DUP	06/15/05	Tissue
626689	MMACROLEPIDOTUM-F-1-2	06/15/05	Tissue
626690	MMACROLEPIDOTUM-F-1-3	06/15/05	Tissue
626691	MMACROLEPIDOTUM-F-1-4	06/15/05	Tissue
626692	MMACROLEPIDOTUM-F-1-5	06/15/05	Tissue
626693	MMACROLEPIDOTUM-F-1-6	06/15/05	Tissue
626694	MMACROLEPIDOTUM-F-1-7	06/15/05	Tissue
626695	MMACROLEPIDOTUM-F-1-8	06/15/05	Tissue
626696	MMACROLEPIDOTUM-F-3-1	06/15/05	Tissue
626697	MMACROLEPIDOTUMF31DUP	06/15/05	Tissue
626698	MMACROLEPIDOTUM-F-3-2	06/15/05	Tissue
626699	MMACROLEPIDOTUM-F-3-3	06/15/05	Tissue
626700	MMACROLEPIDOTUM-F-3-4	06/15/05	Tissue
626701	MMACROLEPIDOTUM-F-3-5	06/15/05	Tissue
626702	MMACROLEPIDOTUM-F-3-6	06/15/05	Tissue
626703	MMACROLEPIDOTUM-F-3-7	06/16/05	Tissue
626704	MMACROLEPIDOTUM-F-3-8	06/16/05	Tissue
626704DP	MMACORLEPIDOTUMF38REP	06/16/05	Tissue
626704MS	MMACROLEPIDOTUMF38MS	06/16/05	Tissue
626704MD	MMACORLEPIDOTUMF38MSD	06/16/05	Tissue
626705	EB3		Solid

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The client sample identifications have been truncated on the analytical reports to facilitate use of commercial data processing systems. In this instance, 'MMACROLEPI' was removed from each name. The entire identification listed on this case narrative will appear in the electronic deliverable. To provide consistency for reporting all Tissue samples submitted for this project, the 'NS-TA' prefix was removed from all samples, and does not appear on this case narrative or in the electronic deliverable.

Please note that the results for the samples in this delivery group are reported on a wet weight basis. Two electronic deliverables have been provided as requested; one that matches the hardcopy exactly and a second with results converted to a dry weight basis.

An equipment blank was generated at the time of tissue preparation/homogenization. This equipment blank was carried through the analytical process and the results reported on the same weight/weight basis as the samples. The analysis of the equipment blank was free of contamination.

The PAH analyses of the matrix spikes associated with sample MMACROLEPIDOTUM-F-3-8 yielded elevated percent recoveries for several target compounds. The associated blank spike sample exhibited acceptable recoveries for all compounds.

The original PAH analyses of samples MMACROLEPIDOTUM-F-3-1, MMACROLEPIDOTUMF31DUP, MMACROLEPIDOTUM-F-3-3, MMACROLEPIDOTUM-F-3-7 and MMACROLEPIDOTUM-F-3-8 yielded the presence of target compounds at concentrations above calibration range. These samples were re-analyzed at appropriate dilutions yielding acceptable results. Both sets of data have been presented in this case submittal. Note that the dilution analyses of samples MMACROLEPIDOTUM-F-3-7 and MMACROLEPIDOTUM-F-3-8 were accomplished on instrument Y, however the original analyses were on instrument P. Method blank SBLKR9 was also analyzed on instrument Y in association with these samples, and has been reported as SBLK9R to provide distinction between its two analyses.

The analyses of several samples in this delivery group yielded responses slightly below control criteria for the internal standards spiked at the time of extraction, which in this analysis are utilized as surrogates rather than as true internal standards. All surrogate recoveries were acceptable with the exception of marginally elevated response for chrysene-d12 in five samples.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Jim Madison
Project Manager

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: WRS Corp.
Address: 10200 INNOVATION DR.
MILWAUKEE, WI 53226
Contact: Mark Sklar
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote:

Invoice to:
Company:
Address: SAME
Contact:
Phone:
Fax:

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25C84375
Project Name: ASHLAND/NSP LAKEFRONT SUPERFUND
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1450		X	NS-TA-SUITREUM-F-1-1				1	X	X	X	Run a duplicate
	6/16	1455			NS-TA-SUITREUM-F-1-2				1	X	X	X	sample of the
	6/16	1500			NS-TA-SUITREUM-F-1-3				1	X	X	X	homogenized
	6/16	1505			NS-TA-SUITREUM-F-1-4				1	X	X	X	tissue sample
	6/16	1510			NS-TA-SUITREUM-F-1-5				1	X	X	X	at a rate of
	6/16	1515			NS-TA-SUITREUM-F-1-6				1	X	X	X	1 duplicate per
	6/15	2345			NS-TA-SUITREUM-W-1-1				1	X	X	X	every 10 samples
	6/16	1500			NS-TA-SUITREUM-W-1-2				1	X	X	X	
	6/16	1505			NS-TA-SUITREUM-W-1-3				1	X	X	X	
	6/16	1510			NS-TA-SUITREUM-W-1-4				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patmal	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Contain VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

1-

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25648375
Project Name: Ashland / NSP Lakefront Expanded
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	LEADS	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1510		X	NS-TA-SUITREUM-W-1-4				1	X	X	X	Run a MS/MSD
	6/16	1515			NS-TA-SUITREUM-W-1-5				1	X	X	X	sample of the
	6/16	2130			NS-TA-SUITREUM-W-3-1				1	X	X	X	homogenized
	6/15	2135			NS-TA-SUITREUM-W-3-2				1	X	X	X	tissue sample
	4/20	2300			NS-TA-SUITREUM-W-3-3				1	X	X	X	at a rate of
	4/20	2305			NS-TA-SUITREUM-W-3-4				1	X	X	X	1 MS/MSD per
	4/20	2310			NS-TA-SUITREUM-W-3-5				1	X	X	X	every 20 samples
	4/20	2315			NS-TA-SUITREUM-W-3-6				1	X	X	X	
	4/20	2200			NS-TA-SUITREUM-F-3-1				1	X	X	X	
U	4/20	2210		V	NS-TA-SUITREUM-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patmond	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE -
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

2-

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	4/20	2230		X	NS-TA-SUITREUM-F-3-3				1	X	X	X	
	4/20	2242			NS-TA-SUITREUM-F-3-4				1	X	X	X	
	4/20	2248			NS-TA-SUITREUM-F-3-5				1	X	X	X	
	4/20	2255			NS-TA-SUITREUM-F-3-6				1	X	X	X	
	6/15	2130			NS-TA-MMACROLEPIDOTUM-W-3-1				1	X	X	X	
	6/16	1200			NS-TA-MMACROLEPIDOTUM-W-3-2				1	X	X	X	
	6/16	1205			NS-TA-MMACROLEPIDOTUM-W-3-3				1	X	X	X	
	6/16	1210			NS-TA-MMACROLEPIDOTUM-W-3-4				1	X	X	X	
	6/16	1215			NS-TA-MMACROLEPIDOTUM-W-3-5				1	X	X	X	
	6/16	1220			NS-TA-MMACROLEPIDOTUM-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnoad	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

3-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berrer
Sampler's Signature: [signature]

Proj. No.: 25688375
Project Name: Ashland/NSP ~~Superfund~~ Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1225		X	NS-TA-MMACROLEPIDOTUM-W-3-7				1	X	X	X	
	6/17	0945		X	NS-TA-MMACROLEPIDOTUM-W-3-8				1	X	X	X	
	6/15	2200			NS-TA-MMACROLEPIDOTUM-W-1-1				1	X	X	X	
	6/15	2205			NS-TA-MMACROLEPIDOTUM-W-1-2				1	X	X	X	
	6/15	2210			NS-TA-MMACROLEPIDOTUM-W-1-3				1	X	X	X	
	6/16	1420			NS-TA-MMACROLEPIDOTUM-W-1-4				1	X	X	X	
	6/16	1425			NS-TA-MMACROLEPIDOTUM-W-1-5				1	X	X	X	
	6/16	1430			NS-TA-MMACROLEPIDOTUM-W-1-6				1	X	X	X	
	~~6/17~~	~~1000~~			~~NS-TA-MMACROLEPIDOTUM-W-1-7~~		BB		0				
	~~6/17~~	~~1005~~			~~NS-TA-MMACROLEPIDOTUM-W-1-8~~		BB		0				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patnoad	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
CORY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

4-1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688325
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers²: P/O

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	0945		X	NS-TA-MMACROLEPIDOTUM-F-1-1				1	X	X	X	
	6/15	2250			NS-TA-MMACROLEPIDOTUM-F-1-2				1	X	X	X	
	6/15	2300			NS-TA-MMACROLEPIDOTUM-F-1-3				1	X	X	X	
	6/15	2305			NS-TA-MMACROLEPIDOTUM-F-1-4				1	X	X	X	
	6/15	2310			NS-TA-MMACROLEPIDOTUM-F-1-5				1	X	X	X	
	6/15	2315			NS-TA-MMACROLEPIDOTUM-F-1-6				1	X	X	X	
	6/15	2320			NS-TA-MMACROLEPIDOTUM-F-1-7				1	X	X	X	
	6/15	2325			NS-TA-MMACROLEPIDOTUM-F-1-8				1	X	X	X	
	6/15	1325			NS-TA-MMACROLEPIDOTUM-F-3-1				1	X	X	X	
↓	6/15	1330		↓	NS-TA-MMACROLEPIDOTUM-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patrick	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

5-1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP / Ashland Lake Front Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	CIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	1335		X	NS-TA-MMACROLEPIDOTUM-F-3-3				1	X	X	X	
	6/15	1340			NS-TA-MMACROLEPIDOTUM-F-3-4				1	X	X	X	
	6/15	1345			NS-TA-MMACROLEPIDOTUM-F-3-5				1	X	X	X	
	6/15	1350			NS-TA-MMACROLEPIDOTUM-F-3-6				1	X	X	X	
	6/16	1045			NS-TA-MMACROLEPIDOTUM-F-3-7				1	X	X	X	
	6/16	1050			NS-TA-MMACROLEPIDOTUM-F-3-8				1	X	X	X	
	6/15	0800			NS-TA-ARUPESTRIS-W-1-1				1	X	X	X	
	6/16	1700			NS-TA-ARUPESTRIS-W-1-2				1	X	X	X	
	6/16	1705			NS-TA-ARUPESTRIS-W-1-3				1	X	X	X	
	6/16	1715			NS-TA-ARUPESTRIS-W-1-4				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnoal	~~06-30-05~~ 06-18-05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks
COPY ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

6-...

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25684375
Project Name: NSP/~~Lakefront~~ Ashland Lake Front Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1720			NS-TA-ARUPESTRIS-W-1-5				1	X	X	X	
	6/16	1725			NS-TA-ARUPESTRIS-W-1-6				1	X	X	X	
	6/16	1730			NS-TA-ARUPESTRIS-W-1-7				1	X	X	X	
	6/16	1735			NS-TA-ARUPESTRIS-W-1-8				1	X	X	X	
	6/15	0955			NS-TA-ARUPESTRIS-W-3-1				1	X	X	X	
	6/16	1030			NS-TA-ARUPESTRIS-W-3-2				1	X	X	X	
	6/16	1035			NS-TA-ARUPESTRIS-W-3-3				1	X	X	X	
	6/16	1040			NS-TA-ARUPESTRIS-W-3-4				1	X	X	X	
	6/16	1045			NS-TA-ARUPESTRIS-W-3-5				1	X	X	X	
	6/16	1055			NS-TA-ARUPESTRIS-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patmont	6.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

7-10

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:

Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:

Company:
Address:
Contact: SAME
Phone:
Fax:

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Job. No.: 688375
Project Name: NSP / Ashland Lake Front Super Fund
No/Type of Containers: P/O

ANALYSIS REQUESTED: STANPAH, LIPIDS, % SOLIDS

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STANPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
	6/16	1100		X	NS-TA-ARUPESTRES-W-3-7				1	X	X	X	
	6/16	1105			NS-TA-ARUPESTRES-W-3-8				1	X	X	X	
	6/15	1300			NS-TA-MADOWMEENE-W-3-1				1	X	X	X	
	6/15	1305			NS-TA-MADOWMEENE-W-3-2				1	X	X	X	
	6/15	1310			NS-TA-MADOWMEENE-W-3-3				1	X	X	X	
	6/16	1015			NS-TA-MADOWMEENE-W-3-4				1	X	X	X	
	6/16	1020			NS-TA-MADOWMEENE-W-3-5				1	X	X	X	
	6/15	1600			NS-TA-MADOWMEENE-W-1-1				1	X	X	X	
	6/15	1605			NS-TA-MADOWMEENE-W-1-2				1	X	X	X	
	6/15	1610			NS-TA-MADOWMEENE-W-1-3				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Brian Berner	6/17/05	1630	Angela Patnoe	06.18.05	1020
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

Matrix: WW - Wastewater, W - Water, S - Soil, L - Liquid, A - Air bag, C - Charcoal Tube, SL - Sludge, O - Oil
Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

8-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: [signature]

Proj. No.: 25688375
Project Name: NSP / Ashland ~~Superfund~~ Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	1615		X	NS-TA-MDOLOMIEUI-W-1-4				1	X	X	X	
	6/15	1620			NS-TA-MDOLOMIEUI-W-1-5				1	X	X	X	
	6/15	1625			NS-TA-MDOLOMIEUI-W-1-6				1	X	X	X	
	6/15	1630			NS-TA-MDOLOMIEUI-W-1-7				1	X	X	X	
	6/16	1740			NS-TA-ANEBULOSUS-W-1-1				1	X	X	X	
	6/16	1745			NS-TA-ANEBULOSUS-W-1-2				1	X	X	X	
	6/16	1750			NS-TA-ANEBULOSUS-W-1-3				1	X	X	X	
	6/16	1755			NS-TA-ANEBULOSUS-W-1-4				1	X	X	X	
	6/16	1800			NS-TA-ANEBULOSUS-W-1-5				1	X	X	X	
	6/16	1805			NS-TA-ANEBULOSUS-W-1-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patnow	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks
COPY ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

9-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP/Ashland Lakefront Emergency
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED: STM PAH, LTPEAS, 2 SOLIDS

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	LTPEAS	2 SOLIDS	Lab/Sample ID (Lab Use Only)
J	6/16	1840		X	NS-TA-ANEBULOSUS-W-1-7				1	X	X	X	
	6/16	1815			NS-TA-ANEBULOSUS-W-1-8				1	X	X	X	
	6/17	1030			NS-TA-ANEBULOSUS-W-3-1				1	X	X	X	
	6/17	1035			NS-TA-ANEBULOSUS-W-3-2				1	X	X	X	
	6/17	1040			NS-TA-ANEBULOSUS-W-3-3				1	X	X	X	
	6/17	1045			NS-TA-ANEBULOSUS-W-3-4				1	X	X	X	
	6/17	1050			NS-TA-ANEBULOSUS-W-3-5				1	X	X	X	
↓	6/17	1100		↓	NS-TA-SUITREUM-W-1-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Brian Berner	6/17/05	1630			
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

10-

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626687

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 29.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		29.5	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUMF11

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626688

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 28.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		28.6	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626689

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 26.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		26.8	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626690

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 28.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		28.1	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626691

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 31.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		31.0	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626692

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 32.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		32.9	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626693

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 31.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		31.0	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108066

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626694

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 28.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		28.7	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626695

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 29.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		29.2	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626696

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 29.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		29.1	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUMF31

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626697

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 29.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		29.5	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626698

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 34.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		34.1	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626699

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 25.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		25.8	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626700

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 24.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		24.0	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626701

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 26.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		26.1	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626702

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 29.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		29.4	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626703

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 31.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		31.4	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626704

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 35.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/19/05	N/A	%	1.0		35.4	

Printed on: 07/25/05 08:03 AM

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
MMACORLEPIDOTUMF38

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626704DP

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 35.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	07/19/05	N/A	%	35.4		35.7		0.8

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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SEVERN TRENT STL

Geotechnical Analysis
Sample Data Summary Package

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626687

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.6	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUMF11

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108066

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626688

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.6	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626689

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.8	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626690

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	3.4	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626691

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	3.8	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626692

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	3.9	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626693

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.4	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626694

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	3.1	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626695

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.7	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626696

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	4.2	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUMF31

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626697

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	3.1	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626698

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	5.7	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626699

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	2.6	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626700

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.6	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626701

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.4	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626702

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	4.0	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626703

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.9	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
MMACROLEPIDOTUM-F-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108066

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 626704

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	1.0	

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
MMACORLEPIDOTUMF38

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108066

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 626704DP

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	07/12/05		%	1.0		1.3		26

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 07/13/05 08:59 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EB3

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108066

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 626705

Matrix: SOLID

Client: URSCO9

Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/12/05		%	1	0.1	0.1	U

Printed on: 07/13/05 08:59 AM

Percent Lipids Calculations

Date: 7/12/2005 **Analyst:** RH

Time: 1130 **ETR(s):** 108066

Client: URSCO9

Sample ID	Sample Weight (g)	Dish (g)	Dish/Residue (g)	Extract Final Volume (mLs)	Aliquot Used in Determination (mLs)	% Lipids
SBLKR9	40.00	0.8777	0.8777	10	1	< 0.1
LCSR9	40.00	0.8736	0.8736	10	1	< 0.1
626687	40.10	0.8967	1.0008	10	1	2.6
626688	40.76	0.8993	1.0048	10	1	2.6
626689	40.20	0.8886	0.9617	10	1	1.8
626690	40.58	0.8847	1.0227	10	1	3.4
626691	40.46	0.8910	1.0444	10	1	3.8
626692	40.05	0.8796	1.0363	10	1	3.9
626693	40.14	0.9003	0.9951	10	1	2.4
626694	40.11	0.8947	1.0202	10	1	3.1
626695	40.54	0.8999	1.0087	10	1	2.7
626696	40.72	0.8799	1.0522	10	1	4.2
626697	40.03	0.9009	1.0244	10	1	3.1
626698	40.88	0.8860	1.1204	10	1	5.7
626699	40.70	0.8854	0.9919	10	1	2.6
626700	40.72	0.8809	0.9456	10	1	1.6
626701	40.26	1.0077	1.0658	10	1	1.4
626702	40.45	0.8864	1.0500	10	1	4.0
626703	40.04	1.0076	1.0834	10	1	1.9
626704	40.49	0.9913	1.0329	10	1	1.0
626704DP	40.78	1.0107	1.0621	10	1	1.3
626705	40.03	0.9989	0.9989	10	1	< 0.1
						#DIV/0!
						#DIV/0!
						#DIV/0!
						#DIV/0!

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SAMPLE DATA SUMMARY PACKAGE

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626687

Sample wt/vol: 40.1 (g/mL) G Lab File ID: 626687

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.1	
91-57-6	2-Methylnaphthalene	5.3	
90-12-0	1-Methylnaphthalene	2.9	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-1DUP

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626688

Sample wt/vol: 40.8 (g/mL) G Lab File ID: 626688

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.2	
91-57-6	2-Methylnaphthalene	5.5	
90-12-0	1-Methylnaphthalene	3.2	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626689

Sample wt/vol: 40.2 (g/mL) G Lab File ID: 626689

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.2	
91-57-6	2-Methylnaphthalene	2.4	
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626690

Sample wt/vol: 40.6 (g/mL) G Lab File ID: 626690

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	4.2	
91-57-6	2-Methylnaphthalene	9.8	
90-12-0	1-Methylnaphthalene	6.5	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	4.8	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	4.3	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.2	
85-01-8	Phenanthrene	4.8	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626691

Sample wt/vol: 40.5 (g/mL) G Lab File ID: 626691

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.4	
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.2	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626692

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626692

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	
91-57-6	2-Methylnaphthalene	7.1	
90-12-0	1-Methylnaphthalene	4.5	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	3.2	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.4	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	4.3	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.5	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

DOTUMF1-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626693

Sample wt/vol: 40.1 (g/mL) G Lab File ID: 626693

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.0	
91-57-6	2-Methylnaphthalene	4.1	
90-12-0	1-Methylnaphthalene	3.0	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626694

Sample wt/vol: 40.1 (g/mL) G Lab File ID: 626694

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	4.2	
91-57-6	2-Methylnaphthalene	7.4	
90-12-0	1-Methylnaphthalene	4.8	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.8	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.5	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF1-8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626695

Sample wt/vol: 40.5 (g/mL) G Lab File ID: 626695

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.6	
91-57-6	2-Methylnaphthalene	4.9	
90-12-0	1-Methylnaphthalene	3.3	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.1	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626696

Sample wt/vol: 40.7 (g/mL) G Lab File ID: 626696

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	320	E
91-57-6	2-Methylnaphthalene	210	E
90-12-0	1-Methylnaphthalene	570	E
92-52-4	Biphenyl	49	
581-42-0	2,6 Dimethylnaphthalene	270	E
208-96-8	Acenaphthylene	19	
83-32-9	Acenaphthene	540	E
2245-38-7	2,3,5 Trimethylnaphthalene	51	
86-73-7	Fluorene	160	E
85-01-8	Phenanthrene	200	E
120-12-7	Anthracene	43	
832-69-9	1-Methylphenanthrene	4.3	
206-44-0	Fluoranthene	17	
129-00-0	Pyrene	9.7	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-1DL

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626696D1

Sample wt/vol: 40.7 (g/mL) G Lab File ID: 626696D

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	D
91-57-6	2-Methylnaphthalene	230	D
90-12-0	1-Methylnaphthalene	620	D
92-52-4	Biphenyl	53	D
581-42-0	2,6 Dimethylnaphthalene	230	D
208-96-8	Acenaphthylene	15	DJ
83-32-9	Acenaphthene	580	D
2245-38-7	2,3,5 Trimethylnaphthalene	56	D
86-73-7	Fluorene	170	D
85-01-8	Phenanthrene	240	D
120-12-7	Anthracene	74	D
832-69-9	1-Methylphenanthrene	8.1	DJ
206-44-0	Fluoranthene	20	D
129-00-0	Pyrene	9.4	DJ
56-55-3	Benzo(a)anthracene	2.3	DJ
218-01-9	Chrysene	3.6	DJ
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
192-97-2	Benzo(e)pyrene	20	U
50-32-8	Benzo(a)pyrene	20	U
198-55-0	Perylene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenz(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

TUMF3-1DUP

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626697

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626697

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	290	E
91-57-6	2-Methylnaphthalene	190	E
90-12-0	1-Methylnaphthalene	520	E
92-52-4	Biphenyl	37	
581-42-0	2,6 Dimethylnaphthalene	240	E
208-96-8	Acenaphthylene	17	
83-32-9	Acenaphthene	480	E
2245-38-7	2,3,5 Trimethylnaphthalene	47	
86-73-7	Fluorene	160	E
85-01-8	Phenanthrene	180	E
120-12-7	Anthracene	39	
832-69-9	1-Methylphenanthrene	3.7	
206-44-0	Fluoranthene	15	
129-00-0	Pyrene	9.0	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

TUMF3-1DUPDL

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626697D1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626697D

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 6.7

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	300	D
91-57-6	2-Methylnaphthalene	190	D
90-12-0	1-Methylnaphthalene	510	D
92-52-4	Biphenyl	50	D
581-42-0	2,6 Dimethylnaphthalene	220	D
208-96-8	Acenaphthylene	14	D
83-32-9	Acenaphthene	510	D
2245-38-7	2,3,5 Trimethylnaphthalene	50	D
86-73-7	Fluorene	170	D
85-01-8	Phenanthrene	270	D
120-12-7	Anthracene	64	D
832-69-9	1-Methylphenanthrene	5.2	DJ
206-44-0	Fluoranthene	18	D
129-00-0	Pyrene	9.2	DJ
56-55-3	Benzo(a)anthracene	13	U
218-01-9	Chrysene	13	U
205-99-2	Benzo(b)fluoranthene	13	U
207-08-9	Benzo(k)fluoranthene	13	U
192-97-2	Benzo(e)pyrene	13	U
50-32-8	Benzo(a)pyrene	13	U
198-55-0	Perylene	13	U
193-39-5	Indeno(1,2,3-cd)pyrene	13	U
53-70-3	Dibenz(a,h)anthracene	13	U
191-24-2	Benzo(g,h,i)perylene	13	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626698

Sample wt/vol: 40.9 (g/mL) G Lab File ID: 626698

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	
91-57-6	2-Methylnaphthalene	3.9	
90-12-0	1-Methylnaphthalene	3.3	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.1	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	5.6	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626699

Sample wt/vol: 40.7 (g/mL) G Lab File ID: 626699

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	71	
91-57-6	2-Methylnaphthalene	51	
90-12-0	1-Methylnaphthalene	110	E
92-52-4	Biphenyl	9.1	
581-42-0	2,6 Dimethylnaphthalene	40	
208-96-8	Acenaphthylene	4.6	
83-32-9	Acenaphthene	100	E
2245-38-7	2,3,5 Trimethylnaphthalene	11	
86-73-7	Fluorene	34	
85-01-8	Phenanthrene	75	
120-12-7	Anthracene	19	
832-69-9	1-Methylphenanthrene	2.8	
206-44-0	Fluoranthene	9.2	
129-00-0	Pyrene	6.3	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-3DL

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626699D1

Sample wt/vol: 40.7 (g/mL) G Lab File ID: 626699D2

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.7

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	73	D
91-57-6	2-Methylnaphthalene	49	D
90-12-0	1-Methylnaphthalene	120	D
92-52-4	Biphenyl	9.7	D
581-42-0	2,6 Dimethylnaphthalene	43	D
208-96-8	Acenaphthylene	5.1	D
83-32-9	Acenaphthene	110	D
2245-38-7	2,3,5 Trimethylnaphthalene	12	D
86-73-7	Fluorene	36	D
85-01-8	Phenanthrene	68	D
120-12-7	Anthracene	17	D
832-69-9	1-Methylphenanthrene	2.0	DJ
206-44-0	Fluoranthene	9.2	D
129-00-0	Pyrene	5.4	D
56-55-3	Benzo(a)anthracene	3.3	U
218-01-9	Chrysene	3.3	U
205-99-2	Benzo(b)fluoranthene	3.3	U
207-08-9	Benzo(k)fluoranthene	3.3	U
192-97-2	Benzo(e)pyrene	3.3	U
50-32-8	Benzo(a)pyrene	3.3	U
198-55-0	Perylene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenz(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

DOTUMF3-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626700

Sample wt/vol: 40.7 (g/mL) G Lab File ID: 626700

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	11	
90-12-0	1-Methylnaphthalene	15	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	4.4	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	11	
2245-38-7	2,3,5 Trimethylnaphthalene	2.5	
86-73-7	Fluorene	3.7	
85-01-8	Phenanthrene	13	
120-12-7	Anthracene	2.9	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.8	
129-00-0	Pyrene	2.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626701

Sample wt/vol: 40.3 (g/mL) G Lab File ID: 626701

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	33	
91-57-6	2-Methylnaphthalene	30	
90-12-0	1-Methylnaphthalene	52	
92-52-4	Biphenyl	4.9	
581-42-0	2,6 Dimethylnaphthalene	18	
208-96-8	Acenaphthylene	3.7	
83-32-9	Acenaphthene	50	
2245-38-7	2,3,5 Trimethylnaphthalene	4.1	
86-73-7	Fluorene	17	
85-01-8	Phenanthrene	28	
120-12-7	Anthracene	7.2	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.8	
129-00-0	Pyrene	2.5	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

DOTUMF3-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626702

Sample wt/vol: 40.5 (g/mL) G Lab File ID: 626702

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	30	
91-57-6	2-Methylnaphthalene	22	
90-12-0	1-Methylnaphthalene	25	
92-52-4	Biphenyl	2.1	
581-42-0	2,6 Dimethylnaphthalene	10	
208-96-8	Acenaphthylene	2.2	
83-32-9	Acenaphthene	22	
2245-38-7	2,3,5 Trimethylnaphthalene	7.3	
86-73-7	Fluorene	9.9	
85-01-8	Phenanthrene	37	
120-12-7	Anthracene	7.7	
832-69-9	1-Methylphenanthrene	3.0	
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	6.8	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626703

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626703

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 08/03/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	190	E
91-57-6	2-Methylnaphthalene	89	
90-12-0	1-Methylnaphthalene	250	E
92-52-4	Biphenyl	21	
581-42-0	2,6 Dimethylnaphthalene	62	
208-96-8	Acenaphthylene	7.7	
83-32-9	Acenaphthene	160	E
2245-38-7	2,3,5 Trimethylnaphthalene	9.7	
86-73-7	Fluorene	52	
85-01-8	Phenanthrene	98	
120-12-7	Anthracene	16	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	7.0	
129-00-0	Pyrene	4.5	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-7DL

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626703D1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626703D

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/04/05

Injection Volume: 2.0(uL) Dilution Factor: 3.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	180	D
91-57-6	2-Methylnaphthalene	89	D
90-12-0	1-Methylnaphthalene	270	D
92-52-4	Biphenyl	20	D
581-42-0	2,6 Dimethylnaphthalene	70	D
208-96-8	Acenaphthylene	6.4	DJ
83-32-9	Acenaphthene	170	D
2245-38-7	2,3,5 Trimethylnaphthalene	8.9	D
86-73-7	Fluorene	51	D
85-01-8	Phenanthrene	58	D
120-12-7	Anthracene	11	D
832-69-9	1-Methylphenanthrene	6.7	U
206-44-0	Fluoranthene	4.4	DJ
129-00-0	Pyrene	2.7	DJ
56-55-3	Benzo(a)anthracene	6.7	U
218-01-9	Chrysene	6.7	U
205-99-2	Benzo(b)fluoranthene	6.7	U
207-08-9	Benzo(k)fluoranthene	6.7	U
192-97-2	Benzo(e)pyrene	6.7	U
50-32-8	Benzo(a)pyrene	6.7	U
198-55-0	Perylene	6.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	U
53-70-3	Dibenz(a,h)anthracene	6.7	U
191-24-2	Benzo(g,h,i)perylene	6.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626704

Sample wt/vol: 40.5 (g/mL) G Lab File ID: 626704

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	200	E
91-57-6	2-Methylnaphthalene	91	
90-12-0	1-Methylnaphthalene	270	E
92-52-4	Biphenyl	22	
581-42-0	2,6 Dimethylnaphthalene	66	
208-96-8	Acenaphthylene	7.5	
83-32-9	Acenaphthene	170	E
2245-38-7	2,3,5 Trimethylnaphthalene	10	
86-73-7	Fluorene	54	
85-01-8	Phenanthrene	100	E
120-12-7	Anthracene	20	
832-69-9	1-Methylphenanthrene	2.8	
206-44-0	Fluoranthene	7.5	
129-00-0	Pyrene	5.2	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-8DL

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626704D1

Sample wt/vol: 40.5 (g/mL) G Lab File ID: 626704D

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/04/05

Injection Volume: 2.0(uL) Dilution Factor: 3.3

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	210	D
91-57-6	2-Methylnaphthalene	95	D
90-12-0	1-Methylnaphthalene	290	D
92-52-4	Biphenyl	22	D
581-42-0	2,6 Dimethylnaphthalene	78	D
208-96-8	Acenaphthylene	7.4	D
83-32-9	Acenaphthene	200	D
2245-38-7	2,3,5 Trimethylnaphthalene	9.8	D
86-73-7	Fluorene	57	D
85-01-8	Phenanthrene	63	D
120-12-7	Anthracene	12	D
832-69-9	1-Methylphenanthrene	2.2	DJ
206-44-0	Fluoranthene	4.6	DJ
129-00-0	Pyrene	3.0	DJ
56-55-3	Benzo(a)anthracene	6.6	U
218-01-9	Chrysene	6.6	U
205-99-2	Benzo(b)fluoranthene	6.6	U
207-08-9	Benzo(k)fluoranthene	6.6	U
192-97-2	Benzo(e)pyrene	6.6	U
50-32-8	Benzo(a)pyrene	6.6	U
198-55-0	Perylene	6.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	U
53-70-3	Dibenz(a,h)anthracene	6.6	U
191-24-2	Benzo(g,h,i)perylene	6.6	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

EB3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626705

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 626705

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/29/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKR9

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: SBLKR9

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0711R9

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLK9R

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: SBLKR9

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0711R9

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/04/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-8MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626704MS

Sample wt/vol: 40.8 (g/mL) G Lab File ID: 626704M

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	190	E
91-57-6	2-Methylnaphthalene	95	
90-12-0	1-Methylnaphthalene	260	E
92-52-4	Biphenyl	29	
581-42-0	2,6 Dimethylnaphthalene	68	
208-96-8	Acenaphthylene	16	
83-32-9	Acenaphthene	170	E
2245-38-7	2,3,5 Trimethylnaphthalene	19	
86-73-7	Fluorene	59	
85-01-8	Phenanthrene	100	E
120-12-7	Anthracene	28	
832-69-9	1-Methylphenanthrene	14	
206-44-0	Fluoranthene	23	
129-00-0	Pyrene	20	
56-55-3	Benzo(a)anthracene	12	
218-01-9	Chrysene	10	
205-99-2	Benzo(b)fluoranthene	4.5	
207-08-9	Benzo(k)fluoranthene	6.4	
192-97-2	Benzo(e)pyrene	4.8	
50-32-8	Benzo(a)pyrene	4.6	
198-55-0	Perylene	4.2	
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	
53-70-3	Dibenz(a,h)anthracene	2.2	
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

DOTUMF3-8MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: 626704MD

Sample wt/vol: 40.1 (g/mL) G Lab File ID: 626704S

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/03/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	190	E
91-57-6	2-Methylnaphthalene	83	
90-12-0	1-Methylnaphthalene	240	E
92-52-4	Biphenyl	29	
581-42-0	2,6 Dimethylnaphthalene	67	
208-96-8	Acenaphthylene	16	
83-32-9	Acenaphthene	170	E
2245-38-7	2,3,5 Trimethylnaphthalene	18	
86-73-7	Fluorene	59	
85-01-8	Phenanthrene	110	E
120-12-7	Anthracene	31	
832-69-9	1-Methylphenanthrene	15	
206-44-0	Fluoranthene	24	
129-00-0	Pyrene	22	
56-55-3	Benzo(a)anthracene	13	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	4.5	
207-08-9	Benzo(k)fluoranthene	6.4	
192-97-2	Benzo(e)pyrene	4.9	
50-32-8	Benzo(a)pyrene	4.5	
198-55-0	Perylene	4.2	
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	
53-70-3	Dibenz(a,h)anthracene	2.2	
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

R9LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix: (soil/water) TISSUE Lab Sample ID: R9LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0711R9

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/11/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/28/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.4	
91-57-6	2-Methylnaphthalene	9.3	
90-12-0	1-Methylnaphthalene	9.1	
92-52-4	Biphenyl	9.6	
581-42-0	2,6 Dimethylnaphthalene	9.8	
208-96-8	Acenaphthylene	9.9	
83-32-9	Acenaphthene	11	
2245-38-7	2,3,5 Trimethylnaphthalene	9.3	
86-73-7	Fluorene	9.1	
85-01-8	Phenanthrene	7.6	
120-12-7	Anthracene	8.6	
832-69-9	1-Methylphenanthrene	8.0	
206-44-0	Fluoranthene	8.2	
129-00-0	Pyrene	7.6	
56-55-3	Benzo(a)anthracene	8.7	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	6.2	
207-08-9	Benzo(k)fluoranthene	11	
192-97-2	Benzo(e)pyrene	9.1	
50-32-8	Benzo(a)pyrene	8.7	
198-55-0	Perylene	9.0	
193-39-5	Indeno(1,2,3-cd)pyrene	8.4	
53-70-3	Dibenz(a,h)anthracene	9.0	
191-24-2	Benzo(g,h,i)perylene	10	

FORM 2
TISSUE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Level: (low/med) *LOW*

	STLVT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	R9LCS	63	61	66	76	75				0
02	SBLKR9	54	56	62	74	75				0
03	DOTUMF1-1	62	63	62	64	70				0
04	DOTUMF1-1DUP	62	63	56	58	58				0
05	DOTUMF1-2	50	54	52	52	53				0
06	DOTUMF1-3	54	59	53	69	56				0
07	DOTUMF1-4	68	68	58	129	61				0
08	DOTUMF1-5	56	58	57	111	56				0
09	DOTUMF1-6	54	56	58	87	54				0
10	DOTUMF1-7	47	56	58	100	50				0
11	DOTUMF1-8	67	72	74	137*	62				1
12	DOTUMF3-1	63	74	71	132*	66				1
13	TUMF3-1DUP	50	61	59	112	52				0
14	EB3	71	73	81	100	79				0
15	DOTUMF3-1DL	72	85	62	85	96				0
16	TUMF3-1DUPDL	69	79	57	71	77				0
17	DOTUMF3-2	73	66	51	99	51				0
18	DOTUMF3-3	77	81	53	114	53				0
19	DOTUMF3-4	76	80	58	110	60				0
20	DOTUMF3-5	87	92	68	145*	66				1
21	DOTUMF3-6	70	71	52	112	50				0
22	DOTUMF3-7	87	94	66	152*	64				1
23	DOTUMF3-8	46	48	33	79	34				0
24	DOTUMF3-8MS	58	62	48	106	44				0
25	DOTUMF3-8MSD	74	78	56	133*	53				1
26	DOTUMF3-3DL	79	81	63	136D	58				0
27	SBLK9R	61	64	67	65	68				0
28	DOTUMF3-7DL	73	88	80	81	84				0
29	DOTUMF3-8DL	39	45	43	45	52				0
30										

		QC LIMITS
S1	= Naphthalene-d8 (SS)	(20-130)
S2	= Acenaphthene-d10 (SS)	(20-130)
S3	= Phenanthrene-d10 (SS)	(20-130)
S4	= Chrysene-d12 (SS)	(20-130)
S5	= Perylene-d12 (SS)	(20-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix Spike - URSCO9 Sample No.: DOTUMF3-8 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	9.8	200	190	-102*	60-140
2-Methylnaphthalene	9.8	91	95	41*	60-140
1-Methylnaphthalene	9.8	270	260	-102*	60-140
Biphenyl	9.8	22	29	71	60-140
2,6 Dimethylnaphthalene	9.8	66	68	20*	60-140
Acenaphthylene	9.8	7.5	16	87	60-140
Acenaphthene	9.8	170	170	0*	60-140
2,3,5 Trimethylnaphthal	9.8	10	19	92	60-140
Fluorene	9.8	54	59	51*	60-140
Phenanthrene	9.8	100	100	0*	60-140
Anthracene	9.8	20	28	82	60-140
1-Methylphenanthrene	9.8	2.8	14	114	60-140
Fluoranthene	9.8	7.5	23	158*	60-140
Pyrene	9.8	5.2	20	151*	60-140
Benzo(a)anthracene	9.8	0.0	12	122	60-140
Chrysene	9.8	0.0	10	102	60-140
Benzo(b)fluoranthene	9.8	0.0	4.5	46*	60-140
Benzo(k)fluoranthene	9.8	0.0	6.4	65	60-140
Benzo(e)pyrene	9.8	0.0	4.8	49*	60-140
Benzo(a)pyrene	9.8	0.0	4.6	47*	60-140
Perylene	9.8	0.0	4.2	43*	60-140
Indeno(1,2,3-cd)pyrene	9.8	0.0	2.0	20*	60-140
Dibenz(a,h)anthracene	9.8	0.0	2.2	22*	60-140
Benzo(g,h,i)perylene	9.8	0.0	0.0	0*	60-140

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

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix Spike - URSCO9 Sample No.: DOTUMF3-8 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	190	-100*	-2	40	60-140
2-Methylnaphthalene	10	83	-80*	-620	40	60-140
1-Methylnaphthalene	10	240	-300*	-98	40	60-140
Biphenyl	10	29	70	1	40	60-140
2,6 Dimethylnaphthalene	10	67	10*	67*	40	60-140
Acenaphthylene	10	16	85	2	40	60-140
Acenaphthene	10	170	0*	999*	40	60-140
2,3,5 Trimethylnaphthal	10	18	80	14	40	60-140
Fluorene	10	59	50*	2	40	60-140
Phenanthrene	10	110	100	200*	40	60-140
Anthracene	10	31	110	29	40	60-140
1-Methylphenanthrene	10	15	122	7	40	60-140
Fluoranthene	10	24	165*	4	40	60-140
Pyrene	10	22	168*	11	40	60-140
Benzo(a)anthracene	10	13	130	6	40	60-140
Chrysene	10	11	110	8	40	60-140
Benzo(b)fluoranthene	10	4.5	45*	2	40	60-140
Benzo(k)fluoranthene	10	6.4	64	2	40	60-140
Benzo(e)pyrene	10	4.9	49*	0	40	60-140
Benzo(a)pyrene	10	4.5	45*	4	40	60-140
Perylene	10	4.2	42*	2	40	60-140
Indeno(1,2,3-cd)pyrene	10	2.0	20*	0	40	60-140
Dibenz(a,h)anthracene	10	2.2	22*	0	40	60-140
Benzo(g,h,i)perylene	10	0.0	0*		40	60-140

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

RPD: 3 out of 24 outside limits
Spike Recovery: 31 out of 48 outside limits

COMMENTS:

FORM 3
TISSUE SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Matrix Spike - STLVT Sample No.: R9LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		9.4	94	60-140
2-Methylnaphthalene	10		9.3	93	60-140
1-Methylnaphthalene	10		9.1	91	60-140
Biphenyl	10		9.6	96	60-140
2,6 Dimethylnaphthalene	10		9.8	98	60-140
Acenaphthylene	10		9.9	99	60-140
Acenaphthene	10		11	110	60-140
2,3,5 Trimethylnaphthal	10		9.3	93	60-140
Fluorene	10		9.1	91	60-140
Phenanthrene	10		7.6	76	60-140
Anthracene	10		8.6	86	60-140
1-Methylphenanthrene	10		8.0	80	60-140
Fluoranthene	10		8.2	82	60-140
Pyrene	10		7.6	76	60-140
Benzo(a)anthracene	10		8.7	87	60-140
Chrysene	10		11	110	60-140
Benzo(b)fluoranthene	10		6.2	62	60-140
Benzo(k)fluoranthene	10		11	110	60-140
Benzo(e)pyrene	10		9.1	91	60-140
Benzo(a)pyrene	10		8.7	87	60-140
Perylene	10		9.0	90	60-140
Indeno(1,2,3-cd)pyrene	10		8.4	84	60-140
Dibenz(a,h)anthracene	10		9.0	90	60-140
Benzo(g,h,i)perylene	10		10	100	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 24 outside limits

COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKR9

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID: B0711R9 Lab Sample ID: SBLKR9

Instrument ID: P Date Extracted: 07/11/05

Matrix: (soil/water) TISSUE Date Analyzed: 07/28/05

Level:(low/med) LOW Time Analyzed: 1758

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	R9LCS	R9LCS	Q0711R9	07/28/05
02	DOTUMF1-1	626687	626687	07/28/05
03	DOTUMF1-1DUP	626688	626688	07/28/05
04	DOTUMF1-2	626689	626689	07/28/05
05	DOTUMF1-3	626690	626690	07/28/05
06	DOTUMF1-4	626691	626691	07/28/05
07	DOTUMF1-5	626692	626692	07/28/05
08	DOTUMF1-6	626693	626693	07/28/05
09	DOTUMF1-7	626694	626694	07/28/05
10	DOTUMF1-8	626695	626695	07/28/05
11	DOTUMF3-1	626696	626696	07/28/05
12	TUMF3-1DUP	626697	626697	07/29/05
13	EB3	626705	626705	07/29/05
14	DOTUMF3-1DL	626696D1	626696D	08/03/05
15	TUMF3-1DUPDL	626697D1	626697D	08/03/05
16	DOTUMF3-2	626698	626698	08/03/05
17	DOTUMF3-3	626699	626699	08/03/05
18	DOTUMF3-4	626700	626700	08/03/05
19	DOTUMF3-5	626701	626701	08/03/05
20	DOTUMF3-6	626702	626702	08/03/05
21	DOTUMF3-7	626703	626703	08/03/05
22	DOTUMF3-8	626704	626704	08/03/05
23	DOTUMF3-8MS	626704MS	626704M	08/03/05
24	DOTUMF3-8MSD	626704MD	626704S	08/03/05
25	DOTUMF3-3DL	626699D1	626699D2	08/03/05
26				
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COMMENTS:

FORM IV SV

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLK9R

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID: B0711R9 Lab Sample ID: SBLKR9

Instrument ID: Y Date Extracted: 07/11/05

Matrix: (soil/water) TISSUE Date Analyzed: 08/04/05

Level:(low/med) LOW Time Analyzed: 0958

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	DOTUMF3-7DL	626703D1	626703D	08/04/05
02	DOTUMF3-8DL	626704D1	626704D	08/04/05
03				
04				
05				
06				
07				
08				
09				
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID: PYE02PS DFTPP Injection Date: 07/28/05

Instrument ID: P DFTPP Injection Time: 1342

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.2
68	Less than 2.0% of mass 69	0.5 (0.6)1
69	Mass 69 relative abundance	82.7
70	Less than 2.0% of mass 69	0.7 (0.9)1
127	40.0 - 60.0% of mass 198	55.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 1.0% of mass 198	2.57
441	Present, but less than mass 443	9.0
442	Greater than 40.0% of mass 198	60.1
443	17.0 - 23.0% of mass 442	11.1 (18.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	PYE500	07/28/05	1403
02	SSTD040	SSTD040	PYE040	07/28/05	1437
03	SSTD200	SSTD200	PYE200	07/28/05	1510
04	SSTD2000	SSTD2000	PYE2000	07/28/05	1544
05	SSTD1000	SSTD1000	PYE1000	07/28/05	1618
06	R9LCS	R9LCS	Q0711R9	07/28/05	1725
07	SBLKR9	SBLKR9	B0711R9	07/28/05	1758
08	DOTUMF1-1	626687	626687	07/28/05	1832
09	DOTUMF1-1DUP	626688	626688	07/28/05	1905
10	DOTUMF1-2	626689	626689	07/28/05	1939
11	DOTUMF1-3	626690	626690	07/28/05	2012
12	DOTUMF1-4	626691	626691	07/28/05	2046
13	DOTUMF1-5	626692	626692	07/28/05	2119
14	DOTUMF1-6	626693	626693	07/28/05	2152
15	DOTUMF1-7	626694	626694	07/28/05	2226
16	DOTUMF1-8	626695	626695	07/28/05	2259
17	DOTUMF3-1	626696	626696	07/28/05	2333
18	TUMF3-1DUP	626697	626697	07/29/05	0006
19					
20					
21					
22					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID: PYE04PS DFTPP Injection Date: 07/29/05

Instrument ID: P DFTPP Injection Time: 0951

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.5
68	Less than 2.0% of mass 69	0.8 (1.2)1
69	Mass 69 relative abundance	72.9
70	Less than 2.0% of mass 69	0.6 (0.8)1
127	40.0 - 60.0% of mass 198	52.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.2
365	Greater than 1.0% of mass 198	2.22
441	Present, but less than mass 443	10.0
442	Greater than 40.0% of mass 198	60.3
443	17.0 - 23.0% of mass 442	12.1 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	PYE500A2	07/29/05	1128
02	EB3	626705	626705	07/29/05	1319
03					
04					
05					
06					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID: PYE10PS DFTPP Injection Date: 08/03/05

Instrument ID: P DFTPP Injection Time: 1024

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	71.9
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	53.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.8
365	Greater than 1.0% of mass 198	2.57
441	Present, but less than mass 443	9.6
442	Greater than 40.0% of mass 198	63.1
443	17.0 - 23.0% of mass 442	12.2 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	PYE500C	08/03/05	1048
02	DOTUMF3-1DL	626696D1	626696D	08/03/05	1250
03	TUMF3-1DUPDL	626697D1	626697D	08/03/05	1324
04	DOTUMF3-2	626698	626698	08/03/05	1358
05	DOTUMF3-3	626699	626699	08/03/05	1432
06	DOTUMF3-4	626700	626700	08/03/05	1506
07	DOTUMF3-5	626701	626701	08/03/05	1540
08	DOTUMF3-6	626702	626702	08/03/05	1614
09	DOTUMF3-7	626703	626703	08/03/05	1647
10	DOTUMF3-8	626704	626704	08/03/05	1721
11	DOTUMF3-8MS	626704MS	626704M	08/03/05	1755
12	DOTUMF3-8MSD	626704MD	626704S	08/03/05	1829
13	DOTUMF3-3DL	626699D1	626699D2	08/03/05	1903
14					
15					
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22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID: YID15PS DFTPP Injection Date: 08/02/05

Instrument ID: Y DFTPP Injection Time: 1252

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.3
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	67.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 30.0% of mass 198	22.8
365	Greater than 1.0% of mass 198	3.14
441	Present, but less than mass 443	12.0
442	Greater than 40.0% of mass 198	84.2
443	17.0 - 23.0% of mass 442	15.4 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YIE500	08/02/05	1431
02	SSTD040	SSTD040	YIE040	08/02/05	1535
03	SSTD200	SSTD200	YIE200	08/02/05	1632
04	SSTD2000	SSTD2000	YIE2000	08/02/05	1709
05	SSTD1000	SSTD1000	YIE1000	08/02/05	1745
06					
07					
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09					
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID: YIE02PS DFTPP Injection Date: 08/04/05

Instrument ID: Y DFTPP Injection Time: 0641

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	67.8
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.98
441	Present, but less than mass 443	11.2
442	Greater than 40.0% of mass 198	74.9
443	17.0 - 23.0% of mass 442	14.2 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YIE500B	08/04/05	0735
02	SBLK9R	SBLKR9	B0711R9	08/04/05	0958
03	DOTUMF3-7DL	626703D1	626703D	08/04/05	1034
04	DOTUMF3-8DL	626704D1	626704D	08/04/05	1110
05					
06					
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6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Instrument ID: P Calibration Date(s): 07/28/05 07/28/05

Calibration Time(s): 1403 1618

LAB FILE ID: RRF40 =PYE040 RRF200=PYE200
RRF500=PYE500 RRF1000=PYE1000 RRF2000=PYE2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.041	1.067	1.096	1.146	1.020	1.074	4.6*
2-Methylnaphthalene *	0.578	0.647	0.728	0.768	0.713	0.687	10.9*
1-Methylnaphthalene *	0.547	0.569	0.653	0.691	0.628	0.618	9.6*
Biphenyl *	1.779	1.783	1.838	1.952	1.824	1.835	3.8*
2,6 Dimethylnaphthalene *	1.179	1.316	1.264	1.389	1.437	1.317	7.7*
Acenaphthylene *	2.148	2.091	2.071	2.226	2.056	2.118	3.3*
Acenaphthene *	1.256	1.265	1.223	1.345	1.184	1.255	4.8*
2,3,5 Trimethylnaphthalene *	1.101	1.060	1.081	1.130	1.063	1.087	2.7*
Fluorene *	1.524	1.543	1.562	1.659	1.514	1.560	3.7*
Phenanthrene *	1.197	0.962	1.240	1.192	1.262	1.171	10.3*
Anthracene *	1.215	1.140	1.204	1.015	1.079	1.131	7.5*
1-Methylphenanthrene *	0.772	0.682	0.791	0.780	0.767	0.758	5.8*
Fluoranthene *	1.010	0.914	0.989	1.019	1.001	0.987	4.3*
Pyrene *	1.112	0.964	1.074	1.091	1.069	1.062	5.4*
Benzo(a)anthracene *	1.488	1.357	1.406	1.433	1.318	1.400	4.7*
Chrysene *	1.803	1.705	1.564	1.588	1.609	1.654	6.0*
Benzo(b)fluoranthene *	1.391	1.422	1.820	1.751	2.018	1.680	16.0*
Benzo(k)fluoranthene *	2.831	2.440	2.311	2.332	2.443	2.471	8.5*
Benzo(e)pyrene *	1.888	1.702	1.779	1.746	1.921	1.807	5.2*
Benzo(a)pyrene *	1.899	1.630	1.789	1.852	1.982	1.830	7.2*
Perylene *	2.162	1.918	1.976	2.065	2.226	2.069	6.1*
Indeno(1,2,3-cd)pyrene *	1.244	0.915	1.114	1.448	1.402	1.225	17.8*
Dibenz(a,h)anthracene *	0.908	0.664	0.783	1.069	1.029	0.891	19.0*
Benzo(g,h,i)perylene *	0.998	0.800	0.944	1.245	1.124	1.022	16.7*
Naphthalene-d8(SS) *	1.677	1.710	1.884	1.451	1.720	1.688	9.2*
Acenaphthene-d10(SS) *	0.696	0.725	0.883	0.673	0.784	0.752	11.2*
Phenanthrene-d10(SS) *	1.190	1.331	1.391	1.181	1.246	1.268	7.2*
Chrysene-d12(SS) *	0.933	0.951	0.899	0.806	0.730	0.864	10.8*
Perylene-d12(SS) *	0.861	0.864	0.831	0.746	0.760	0.812	6.9*

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

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Instrument ID: Y Calibration Date(s): 08/02/05 08/02/05

Calibration Time(s): 1431 1745

LAB FILE ID: RRF40 =YIE040 RRF200=YIE200
RRF500=YIE500 RRF1000=YIE1000 RRF2000=YIE2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	0.973	1.009	1.059	1.019	1.007	1.013	3.1*
2-Methylnaphthalene *	0.645	0.648	0.688	0.655	0.665	0.660	2.6*
1-Methylnaphthalene *	0.566	0.597	0.636	0.608	0.602	0.602	4.2*
Biphenyl *	1.515	1.570	1.769	1.722	1.688	1.653	6.4*
2,6 Dimethylnaphthalene *	1.099	1.156	1.307	1.484	1.580	1.325	15.6*
Acenaphthylene *	1.889	1.931	2.298	2.206	2.085	2.082	8.4*
Acenaphthene *	1.126	1.148	1.254	1.266	1.245	1.208	5.4*
2,3,5 Trimethylnaphthalene *	1.030	1.006	1.088	1.096	1.083	1.061	3.8*
Fluorene *	1.254	1.332	1.478	1.434	1.372	1.374	6.4*
Phenanthrene *	1.249	1.331	1.384	1.345	1.326	1.327	3.7*
Anthracene *	1.238	1.377	1.519	1.467	1.381	1.396	7.7*
1-Methylphenanthrene *	0.815	0.865	0.955	0.945	0.927	0.901	6.6*
Fluoranthene *	1.185	1.297	1.372	1.302	1.278	1.287	5.2*
Pyrene *	1.293	1.359	1.489	1.443	1.419	1.401	5.5*
Benzo(a)anthracene *	1.284	1.440	1.380	1.376	1.343	1.365	4.2*
Chrysene *	1.304	1.537	1.273	1.522	1.282	1.384	9.7*
Benzo(b)fluoranthene *	1.098	1.243	1.395	1.160	1.193	1.218	9.2*
Benzo(k)fluoranthene *	1.317	1.783	1.394	1.682	1.659	1.567	12.8*
Benzo(e)pyrene *	1.106	1.269	1.217	1.198	1.192	1.196	4.9*
Benzo(a)pyrene *	0.933	1.190	1.152	1.134	1.151	1.112	9.2*
Perylene *	1.048	1.367	1.328	1.387	1.363	1.299	10.9*
Indeno(1,2,3-cd)pyrene *	0.881	1.084	1.042	1.033	1.098	1.028	8.4*
Dibenz(a,h)anthracene *	0.662	0.762	0.740	0.736	0.814	0.743	7.4*
Benzo(g,h,i)perylene *	0.861	1.007	0.980	0.966	1.022	0.967	6.6*
Naphthalene-d8(SS) *	1.278	1.410	1.361	1.439	1.310	1.360	4.9*
Acenaphthene-d10(SS) *	0.678	0.745	0.681	0.699	0.652	0.691	5.0*
Phenanthrene-d10(SS) *	1.033	1.082	1.025	1.048	0.978	1.033	3.6*
Chrysene-d12(SS) *	1.023	0.923	0.969	0.977	0.876	0.954	5.9*
Perylene-d12(SS) *	0.779	0.759	0.726	0.754	0.694	0.742	4.4*

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Instrument ID: P Calibration Date: 07/28/05 Time: 1403

Lab File ID: PYE500 Init. Calib. Date(s): 07/28/05 07/28/05

Init. Calib. Times: 1403 1618

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.074	1.096	0.2	2.0	25.0
2-Methylnaphthalene	0.687	0.728	0.2	6.0	25.0
1-Methylnaphthalene	0.618	0.653	0.2	5.7	25.0
Biphenyl	1.835	1.838	0.2	0.2	25.0
2,6 Dimethylnaphthalene	1.317	1.264	0.2	4.0	25.0
Acenaphthylene	2.118	2.071	0.2	2.2	25.0
Acenaphthene	1.255	1.223	0.2	2.5	25.0
2,3,5 Trimethylnaphthalene	1.087	1.081	0.2	0.6	25.0
Fluorene	1.560	1.562	0.2	0.1	25.0
Phenanthrene	1.171	1.240	0.2	5.9	25.0
Anthracene	1.131	1.204	0.2	6.4	25.0
1-Methylphenanthrene	0.758	0.791	0.2	4.4	25.0
Fluoranthene	0.987	0.989	0.2	0.2	25.0
Pyrene	1.062	1.074	0.2	1.1	25.0
Benzo(a)anthracene	1.400	1.406	0.2	0.4	25.0
Chrysene	1.654	1.564	0.2	5.4	25.0
Benzo(b)fluoranthene	1.680	1.820	0.2	8.3	25.0
Benzo(k)fluoranthene	2.471	2.311	0.2	6.5	25.0
Benzo(e)pyrene	1.807	1.779	0.2	1.5	25.0
Benzo(a)pyrene	1.830	1.789	0.2	2.2	25.0
Perylene	2.069	1.976	0.2	4.5	25.0
Indeno(1,2,3-cd)pyrene	1.225	1.114	0.2	9.1	25.0
Dibenz(a,h)anthracene	0.891	0.783	0.2	12.1	25.0
Benzo(g,h,i)perylene	1.022	0.944	0.2	7.6	25.0
Naphthalene-d8(SS)	1.688	1.884	0.2	11.6	25.0
Acenaphthene-d10(SS)	0.752	0.883	0.2	17.4	25.0
Phenanthrene-d10(SS)	1.268	1.391	0.2	9.7	25.0
Chrysene-d12(SS)	0.864	0.899	0.2	4.0	25.0
Perylene-d12(SS)	0.812	0.831	0.2	2.3	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Instrument ID: P Calibration Date: 07/29/05 Time: 1128

Lab File ID: PYE500A2 Init. Calib. Date(s): 07/28/05 07/28/05

Init. Calib. Times: 1403 1618

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.074	1.065	0.2	0.8	25.0
2-Methylnaphthalene	0.687	0.720	0.2	4.8	25.0
1-Methylnaphthalene	0.618	0.644	0.2	4.2	25.0
Biphenyl	1.835	1.734	0.2	5.5	25.0
2,6 Dimethylnaphthalene	1.317	1.266	0.2	3.9	25.0
Acenaphthylene	2.118	2.068	0.2	2.4	25.0
Acenaphthene	1.255	1.240	0.2	1.2	25.0
2,3,5 Trimethylnaphthalene	1.087	1.030	0.2	5.2	25.0
Fluorene	1.560	1.332	0.2	14.6	25.0
Phenanthrene	1.171	0.992	0.2	15.3	25.0
Anthracene	1.131	1.039	0.2	8.1	25.0
1-Methylphenanthrene	0.758	0.718	0.2	5.3	25.0
Fluoranthene	0.987	0.840	0.2	14.9	25.0
Pyrene	1.062	0.901	0.2	15.2	25.0
Benzo(a)anthracene	1.400	1.542	0.2	10.1	25.0
Chrysene	1.654	1.406	0.2	15.0	25.0
Benzo(b)fluoranthene	1.680	1.850	0.2	10.1	25.0
Benzo(k)fluoranthene	2.471	2.980	0.2	20.6	25.0
Benzo(e)pyrene	1.807	2.030	0.2	12.3	25.0
Benzo(a)pyrene	1.830	1.939	0.2	6.0	25.0
Perylene	2.069	2.156	0.2	4.2	25.0
Indeno(1,2,3-cd)pyrene	1.225	1.094	0.2	10.7	25.0
Dibenz(a,h)anthracene	0.891	0.788	0.2	11.6	25.0
Benzo(g,h,i)perylene	1.022	0.898	0.2	12.1	25.0
Naphthalene-d8(SS)	1.688	1.539	0.2	8.8	25.0
Acenaphthene-d10(SS)	0.752	0.748	0.2	0.5	25.0
Phenanthrene-d10(SS)	1.268	1.141	0.2	10.0	25.0
Chrysene-d12(SS)	0.864	0.707	0.2	18.2	25.0
Perylene-d12(SS)	0.812	0.751	0.2	7.5	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Instrument ID: P Calibration Date: 08/03/05 Time: 1048

Lab File ID: PYE500C Init. Calib. Date(s): 07/28/05 07/28/05

Init. Calib. Times: 1403 1618

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.074	1.081	0.2	0.6	25.0
2-Methylnaphthalene	0.687	0.784	0.2	14.1	25.0
1-Methylnaphthalene	0.618	0.722	0.2	16.8	25.0
Biphenyl	1.835	1.796	0.2	2.1	25.0
2,6 Dimethylnaphthalene	1.317	1.511	0.2	14.7	25.0
Acenaphthylene	2.118	2.214	0.2	4.5	25.0
Acenaphthene	1.255	1.268	0.2	1.0	25.0
2,3,5 Trimethylnaphthalene	1.087	1.037	0.2	4.6	25.0
Fluorene	1.560	1.519	0.2	2.6	25.0
Phenanthrene	1.171	0.969	0.2	17.2	25.0
Anthracene	1.131	0.890	0.2	21.3	25.0
1-Methylphenanthrene	0.758	0.682	0.2	10.0	25.0
Fluoranthene	0.987	0.844	0.2	14.5	25.0
Pyrene	1.062	0.925	0.2	12.9	25.0
Benzo(a)anthracene	1.400	1.282	0.2	8.4	25.0
Chrysene	1.654	1.433	0.2	13.4	25.0
Benzo(b)fluoranthene	1.680	1.817	0.2	8.2	25.0
Benzo(k)fluoranthene	2.471	1.903	0.2	23.0	25.0
Benzo(e)pyrene	1.807	1.670	0.2	7.6	25.0
Benzo(a)pyrene	1.830	1.575	0.2	13.9	25.0
Perylene	2.069	1.789	0.2	13.5	25.0
Indeno(1,2,3-cd)pyrene	1.225	1.168	0.2	4.6	25.0
Dibenz(a,h)anthracene	0.891	0.812	0.2	8.9	25.0
Benzo(g,h,i)perylene	1.022	1.036	0.2	1.4	25.0
Naphthalene-d8(SS)	1.688	1.288	0.2	23.7	25.0
Acenaphthene-d10(SS)	0.752	0.666	0.2	11.4	25.0
Phenanthrene-d10(SS)	1.268	1.245	0.2	1.8	25.0
Chrysene-d12(SS)	0.864	0.796	0.2	7.9	25.0
Perylene-d12(SS)	0.812	0.754	0.2	7.1	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Instrument ID: Y Calibration Date: 08/04/05 Time: 0735

Lab File ID: YIE500B Init. Calib. Date(s): 08/02/05 08/02/05

Init. Calib. Times: 1431 1745

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.013	1.061	0.2	4.7	25.0
2-Methylnaphthalene	0.660	0.693	0.2	5.0	25.0
1-Methylnaphthalene	0.602	0.633	0.2	5.1	25.0
Biphenyl	1.653	1.793	0.2	8.5	25.0
2,6 Dimethylnaphthalene	1.325	1.318	0.2	0.5	25.0
Acenaphthylene	2.082	2.310	0.2	11.0	25.0
Acenaphthene	1.208	1.304	0.2	7.9	25.0
2,3,5 Trimethylnaphthalene	1.061	1.117	0.2	5.3	25.0
Fluorene	1.374	1.449	0.2	5.4	25.0
Phenanthrene	1.327	1.385	0.2	4.4	25.0
Anthracene	1.396	1.503	0.2	7.7	25.0
1-Methylphenanthrene	0.901	0.943	0.2	4.7	25.0
Fluoranthene	1.287	1.279	0.2	0.6	25.0
Pyrene	1.401	1.394	0.2	0.5	25.0
Benzo(a)anthracene	1.365	1.375	0.2	0.7	25.0
Chrysene	1.384	1.338	0.2	3.3	25.0
Benzo(b)fluoranthene	1.218	1.116	0.2	8.4	25.0
Benzo(k)fluoranthene	1.567	1.653	0.2	5.5	25.0
Benzo(e)pyrene	1.196	1.182	0.2	1.2	25.0
Benzo(a)pyrene	1.112	1.125	0.2	1.2	25.0
Perylene	1.299	1.262	0.2	2.8	25.0
Indeno(1,2,3-cd)pyrene	1.028	0.956	0.2	7.0	25.0
Dibenz(a,h)anthracene	0.743	0.668	0.2	10.1	25.0
Benzo(g,h,i)perylene	0.967	0.878	0.2	9.2	25.0
Naphthalene-d8(SS)	1.360	1.391	0.2	2.3	25.0
Acenaphthene-d10(SS)	0.691	0.673	0.2	2.6	25.0
Phenanthrene-d10(SS)	1.033	1.001	0.2	3.1	25.0
Chrysene-d12(SS)	0.954	0.994	0.2	4.2	25.0
Perylene-d12(SS)	0.742	0.722	0.2	2.7	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500 Date Analyzed: 07/28/05

Instrument ID: P Time Analyzed: 1403

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3(NPT) AREA #	RT #
	12 HOUR STD	19665	12.08	16873	21.71	55590	7.61
	UPPER LIMIT	39330	12.58	33746	22.21	111180	8.11
	LOWER LIMIT	9832	11.58	8436	21.21	27795	7.11
	STLVT SAMPLE NO.						
01	R9LCS	23012	12.08	12226	21.73	41162	7.62
02	SBLKR9	20365	12.08	11215	21.73	31332	7.63
03	DOTUMF1-1	18649	12.08	14460	21.73	32954	7.62
04	DOTUMF1-1DUP	20659	12.08	17649	21.73	36237	7.62
05	DOTUMF1-2	28215	12.08	17665	21.73	40106	7.63
06	DOTUMF1-3	26826	12.08	16845	21.73	40802	7.63
07	DOTUMF1-4	26129	12.08	12203	21.73	50405	7.62
08	DOTUMF1-5	24841	12.08	12539	21.73	39458	7.62
09	DOTUMF1-6	25605	12.08	17023	21.73	38912	7.62
10	DOTUMF1-7	23726	12.08	13761	21.73	31262	7.62
11	DOTUMF1-8	23601	12.08	13293	21.73	44529	7.63
12	DOTUMF3-1	24895	12.08	13419	21.73	44530	7.61
13	TUMF3-1DUP	25417	12.08	13534	21.73	36283	7.61
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorene-d10
IS2 = Benzo(a)pyrene-d12
IS3 (NPT) = Naphthalene-d8

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500 Date Analyzed: 07/28/05

Instrument ID: P Time Analyzed: 1403

		IS4 (ANT) AREA #	RT #	IS5 (PHN) AREA #	RT #	IS6 (CRY) AREA #	RT #
	12 HOUR STD	26054	11.05	41032	13.95	22751	19.21
	UPPER LIMIT	52108	11.55	82064	14.45	45502	19.71
	LOWER LIMIT	13027	10.55	20516	13.45	11376	18.71
	STLVT SAMPLE NO.						
01	R9LCS	18681	11.05	32298	13.95	12605	19.23
02	SBLKR9	15128	11.08	26534	13.96	11262*	19.23
03	DOTUMF1-1	15556	11.05	24190	13.96	12447	19.21
04	DOTUMF1-1DUP	17214	11.05	24011	13.96	13716	19.23
05	DOTUMF1-2	20195	11.08	30323	13.96	12423	19.21
06	DOTUMF1-3	21112	11.08	29796	13.95	15727	19.21
07	DOTUMF1-4	23420	11.06	32169	13.95	21164	19.21
08	DOTUMF1-5	19266	11.08	29487	13.95	18732	19.21
09	DOTUMF1-6	18977	11.08	30736	13.96	20026	19.21
10	DOTUMF1-7	17450	11.08	28901	13.95	18601	19.23
11	DOTUMF1-8	22391	11.08	36213	13.96	24516	19.23
12	DOTUMF3-1	24458	11.05	37065	13.96	23973	19.21
13	TUMF3-1DUP	20445	11.05	31606	13.96	20547	19.21
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
IS6 (CRY) = Chrysene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500 Date Analyzed: 07/28/05

Instrument ID: P Time Analyzed: 1403

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	21032	21.87				
	UPPER LIMIT	42064	22.37				
	LOWER LIMIT	10516	21.37				
	STLVT SAMPLE NO.						
01	R9LCS	11383	21.86				
02	SBLKR9	10473*	21.87				
03	DOTUMF1-1	12729	21.86				
04	DOTUMF1-1DUP	12745	21.87				
05	DOTUMF1-2	11722	21.86				
06	DOTUMF1-3	11877	21.87				
07	DOTUMF1-4	9219*	21.87				
08	DOTUMF1-5	8771*	21.87				
09	DOTUMF1-6	11581	21.86				
10	DOTUMF1-7	8538*	21.87				
11	DOTUMF1-8	10309*	21.87				
12	DOTUMF3-1	11062	21.86				
13	TUMF3-1DUP	8833*	21.86				
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500A2 Date Analyzed: 07/29/05

Instrument ID: P Time Analyzed: 1128

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	79453	7.63	38628	11.08	34410	12.08
	UPPER LIMIT	158906	8.13	77256	11.58	68820	12.58
	LOWER LIMIT	39726	7.13	19314	10.58	17205	11.58
	STLVT SAMPLE NO.						
01	EB3	39562*	7.61	19823	11.06	24035	12.08
02							
03							
04							
05							
06							
07							
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19							
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21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500A2 Date Analyzed: 07/29/05

Instrument ID: P Time Analyzed: 1128

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	58902	13.95	25621	19.23	24156	21.73
	UPPER LIMIT	117804	14.45	51242	19.73	48312	22.23
	LOWER LIMIT	29451	13.45	12810	18.73	12078	21.23
	STLVT SAMPLE NO.						
01	EB3	34772	13.96	19465	19.23	18370	21.73
02							
03							
04							
05							
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20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500A2 Date Analyzed: 07/29/05

Instrument ID: P Time Analyzed: 1128

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	27218	21.87				
	UPPER LIMIT	54436	22.37				
	LOWER LIMIT	13609	21.37				
	STLVT SAMPLE NO.						
01	EB3	16292	21.87				
02							
03							
04							
05							
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07							
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20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500C Date Analyzed: 08/03/05

Instrument ID: P Time Analyzed: 1048

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	48625	7.51	25166	10.97	25170	11.97
	UPPER LIMIT	97250	8.01	50332	11.47	50340	12.47
	LOWER LIMIT	24312	7.01	12583	10.47	12585	11.47
	STLVT SAMPLE NO.						
01	DOTUMF3-1DL	3158*	7.51	1919*	10.97	22618	11.97
02	TUMF3-1DUPDL	4551*	7.50	2688*	10.95	22640	11.97
03	DOTUMF3-2	28043	7.49	13184	10.94	19960	11.97
04	DOTUMF3-3	30685	7.50	16631	10.95	20497	11.95
05	DOTUMF3-4	34107	7.49	18409	10.95	23089	11.97
06	DOTUMF3-5	34895	7.50	19138	10.94	20843	11.97
07	DOTUMF3-6	28459	7.50	14812	10.94	20907	11.97
08	DOTUMF3-7	36169	7.50	20254	10.95	21477	11.97
09	DOTUMF3-8	20510*	7.50	11292*	10.95	23267	11.95
10	DOTUMF3-8MS	23298*	7.50	12944	10.95	20828	11.97
11	DOTUMF3-8MSD	30588	7.49	16741	10.95	21312	11.97
12	DOTUMF3-3DL	19099*	7.50	10140*	10.95	20769	11.97
13							
14							
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18							
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500C Date Analyzed: 08/03/05

Instrument ID: P Time Analyzed: 1048

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	47022	13.84	26416	19.10	22134	21.59
	UPPER LIMIT	94044	14.34	52832	19.60	44268	22.09
	LOWER LIMIT	23511	13.34	13208	18.60	11067	21.09
	STLVT SAMPLE NO.						
01	DOTUMF3-1DL	2641*	13.84	1680*	19.10	16555	21.61
02	TUMF3-1DUPDL	3641*	13.84	2051*	19.10	16094	21.59
03	DOTUMF3-2	19026*	13.84	14508	19.10	12244	21.59
04	DOTUMF3-3	21314*	13.84	16886	19.10	12445	21.59
05	DOTUMF3-4	24844	13.84	17667	19.10	13483	21.59
06	DOTUMF3-5	26603	13.84	20115	19.10	11614	21.59
07	DOTUMF3-6	20309*	13.84	15941	19.10	11894	21.59
08	DOTUMF3-7	26397	13.84	21237	19.10	11719	21.59
09	DOTUMF3-8	14437*	13.84	11408*	19.10	12046	21.59
10	DOTUMF3-8MS	18542*	13.84	14698	19.10	11586	21.59
11	DOTUMF3-8MSD	22177*	13.84	18080	19.10	11411	21.59
12	DOTUMF3-3DL	14788*	13.84	11016*	19.10	11328	21.59
13							
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): PYE500C Date Analyzed: 08/03/05

Instrument ID: P Time Analyzed: 1048

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	25028	21.73				
	UPPER LIMIT	50056	22.23				
	LOWER LIMIT	12514	21.23				
	STLVT SAMPLE NO.						
01	DOTUMF3-1DL	1788*	21.74				
02	TUMF3-1DUPDL	2100*	21.73				
03	DOTUMF3-2	7118*	21.73				
04	DOTUMF3-3	7452*	21.73				
05	DOTUMF3-4	9190*	21.73				
06	DOTUMF3-5	8739*	21.73				
07	DOTUMF3-6	6803*	21.73				
08	DOTUMF3-7	8539*	21.73				
09	DOTUMF3-8	4679*	21.73				
10	DOTUMF3-8MS	5798*	21.73				
11	DOTUMF3-8MSD	6816*	21.73				
12	DOTUMF3-3DL	4486*	21.73				
13							
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22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): YIE500B Date Analyzed: 08/04/05

Instrument ID: Y Time Analyzed: 0735

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	75405	10.02	36474	13.57	36138	14.60
	UPPER LIMIT	150810	10.52	72948	14.07	72276	15.10
	LOWER LIMIT	37702	9.52	18237	13.07	18069	14.10
	STLVT SAMPLE NO.						
01	SBLK9R	39709	10.02	20402	13.57	31384	14.60
02	DOTUMF3-7DL	12625*	10.02	7343*	13.55	27678	14.60
03	DOTUMF3-8DL	6770*	10.02	3785*	13.55	27558	14.60
04							
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22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): YIE500B Date Analyzed: 08/04/05

Instrument ID: Y Time Analyzed: 0735

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	54277	16.53	36505	21.89	24482	24.45
	UPPER LIMIT	108554	17.03	73010	22.39	48964	24.95
	LOWER LIMIT	27138	16.03	18252	21.39	12241	23.95
	STLVT SAMPLE NO.						
01	SBLK9R	31657	16.54	19777	21.89	20287	24.45
02	DOTUMF3-7DL	9977*	16.54	7021*	21.89	19398	24.45
03	DOTUMF3-8DL	5326*	16.54	3803*	21.92	18840	24.45
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108066

Lab File ID (Standard): YIE500B Date Analyzed: 08/04/05

Instrument ID: Y Time Analyzed: 0735

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	26530	24.59				
	UPPER LIMIT	53060	25.09				
	LOWER LIMIT	13265	24.09				
	STLVT SAMPLE NO.						
01	SBLK9R	14875	24.59				
02	DOTUMF3-7DL	5289*	24.61				
03	DOTUMF3-8DL	3220*	24.61				
04							
05							
06							
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22							

IS7 (PRY) = Perylene-d12

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

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

STL Burlington
Colchester, Vermont

Sample Data Summary Package

SDG: 108176

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

August 11, 2005

Mr. Paul Sklar
URS Corporation
10200 Innovation Drive
Suite 500
Milwaukee, WI 53226

Re: Laboratory Project No. 25000
Case: 25000; SDG: 108176

Dear Mr. Sklar:

Enclosed are the analytical results for samples received by STL Burlington on June 18 and 23, 2005. This report is sequentially numbered starting with page 0001 and ending with page 0392. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 06/18/05 ETR No: 108176		
627480	MDOLOMIEUI-W-3-1	06/15/05	Tissue
627481	MDOLOMIEUI-W-3-DUP1	06/15/05	Tissue
627482	MDOLOMIEUI-W-3-2	06/15/05	Tissue
627483	MDOLOMIEUI-W-3-3	06/15/05	Tissue
627484	MDOLOMIEUI-W-3-4	06/16/05	Tissue
627485	MDOLOMIEUI-W-3-5	06/16/05	Tissue
627486	MDOLOMIEUI-W-1-1	06/15/05	Tissue
627487	MDOLOMIEUI-W-1-2	06/15/05	Tissue
627488	MDOLOMIEUI-W-1-3	06/15/05	Tissue
627489	MDOLOMIEUI-W-1-4	06/15/05	Tissue
627490	MDOLOMIEUI-W-1-5	06/15/05	Tissue
627491	MDOLOMIEUI-W-1-6	06/15/05	Tissue
627492	MDOLOMIEUI-W-1-7	06/15/05	Tissue
627492DP	MDOLOMIEUI-W-1-7REP	06/15/05	Tissue
627492MS	MDOLOMIEUI-W-1-7MS	06/15/05	Tissue
627492MD	MDOLOMIEUI-W-1-7MSD	06/15/05	Tissue
627493	SVITREUM-W-1-6	06/17/05	Tissue
627494	EB4		Solid
	Received: 06/23/05 ETR No: 108180		
627518	MDOLOMIVE-W-3-6	06/21/05	Tissue
627519	MDOLOMIVE-W-3-7	06/21/05	Tissue

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The client sample identifications have been truncated on the analytical reports to facilitate use of commercial data processing systems. In this instance, 'MDOLO' was removed from each name. The entire identification listed on this case narrative will appear in the electronic deliverable. To provide consistency for reporting all Tissue samples submitted for this project, the 'NS-TA' prefix was removed from all samples, and does not appear on this case narrative or in the electronic deliverable.

Please note that the results for the samples in this delivery group are reported on a wet weight basis. Two electronic deliverables have been provided as requested; one that matches the hardcopy exactly and a second with results converted to a dry weight basis.

An equipment blank was generated at the time of tissue preparation/homogenization. This equipment blank was carried through the analytical process and the results reported on the same weight/weight basis as the samples. The analysis of the equipment blank was free of contamination.

The analyses of several samples in this delivery group yielded responses slightly below control criteria for the internal standards spiked at the time of extraction, which in this analysis are utilized as surrogates rather than as true internal standards. All surrogate recoveries were acceptable.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Jim Madison
Project Manager

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: WRS Corp.
Address: 10200 INNOVATION DR.
MILWAUKEE, WI 53226
Contact: Paul SKLAR
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote:

Invoice to:
Company:
Address: SAME
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Beaver
Sampler's Signature: Brian Beaver

Proj. No.: 25L84375
Project Name: ASHLAND / NSA LAKEFRONT SUPERFUND
No/Type of Containers²: P/O

ANALYSIS REQUESTED: SIMPAH, LIPIDS, % SOLIDS

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1450		X	NS-TA-SUITREUM-F-1-1				1	X	X	X	Run a duplicate
	6/16	1455			NS-TA-SUITREUM-F-1-2				1	X	X	X	sample of the
	6/16	1500			NS-TA-SUITREUM-F-1-3				1	X	X	X	homogenized
	6/16	1505			NS-TA-SUITREUM-F-1-4				1	X	X	X	tissue sample
	6/16	1510			NS-TA-SUITREUM-F-1-5				1	X	X	X	at a rate of
	6/16	1515			NS-TA-SUITREUM-F-1-6				1	X	X	X	1 duplicate per
	6/15	2345			NS-TA-SUITREUM-W-1-1				1	X	X	X	every 10 samples
	6/16	1500			NS-TA-SUITREUM-W-1-2				1	X	X	X	
	6/16	1505			NS-TA-SUITREUM-W-1-3				1	X	X	X	
	6/16	1510			NS-TA-SUITREUM-W-1-4				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Beaver	6/17/05	1630	Angela Patmond	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum seal bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 2 3 4 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25668375
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1510		X	NS-TA-SUITREUM-W-1-4				1	X	X	X	Runa MS/MSD
	6/16	1515			NS-TA-SUITREUM-W-1-5				1	X	X	X	sample of the
	6/15	2130 BB			NS-TA-SUITREUM-W-3-1				1	X	X	X	homogenized
	6/15	2135			NS-TA-SUITREUM-W-3-2				1	X	X	X	tissue sample
BB	4/20	2300			NS-TA-SUITREUM-W-3-3				1	X	X	X	at a rate of
	4/20	2305			NS-TA-SUITREUM-W-3-4				1	X	X	X	1 MS/MSD per
	4/20	2310			NS-TA-SUITREUM-W-3-5				1	X	X	X	every 20 samples
	4/20	2315			NS-TA-SUITREUM-W-3-6				1	X	X	X	
	4/20	2200			NS-TA-SUITREUM-F-3-1				1	X	X	X	
	4/20	2220			NS-TA-SUITREUM-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnoe	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks

COPY - ORIGINAL ON FILE -
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Cont VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes.
Please Fax written change
(802) 655-1248

TL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 2 3 4 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Bernen
Sampler's Signature: Brian Bernen

Proj. No.: 25688375
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	4/20	2230		X	NS-TA-SUITREUM-F-3-3				1	X	X	X	
	4/20	2242			NS-TA-SUITREUM-F-3-4				1	X	X	X	
	4/20	2248			NS-TA-SUITREUM-F-3-5				1	X	X	X	
	4/20	2255			NS-TA-SUITREUM-F-3-6				1	X	X	X	
	6/15	2130			NS-TA-MMACROLEPIDOTUM-W-3-1				1	X	X	X	
	6/16	1200			NS-TA-MMACROLEPIDOTUM-W-3-2				1	X	X	X	
	6/16	1205			NS-TA-MMACROLEPIDOTUM-W-3-3				1	X	X	X	
	6/16	1210			NS-TA-MMACROLEPIDOTUM-W-3-4				1	X	X	X	
	6/16	1215			NS-TA-MMACROLEPIDOTUM-W-3-5				1	X	X	X	
	6/16	1220			NS-TA-MMACROLEPIDOTUM-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Bernen	6/17/05	1630	Angela Patnoad	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berrer
Sampler's Signature: [signature]

Proj. No.: 25688375
Project Name: Ashland/NSP ~~Superfund~~ Lake Front Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1225		X	NS-TA-MMACROLEPIDOTUM-W-3-7				1	X	X	X	
	6/17	0945		X	NS-TA-MMACROLEPIDOTUM-W-3-8				1	X	X	X	
	6/15	2200			NS-TA-MMACROLEPIDOTUM-W-1-1				1	X	X	X	
	6/15	2205			NS-TA-MMACROLEPIDOTUM-W-1-2				1	X	X	X	
	6/15	2210			NS-TA-MMACROLEPIDOTUM-W-1-3				1	X	X	X	
	6/16	1420			NS-TA-MMACROLEPIDOTUM-W-1-4				1	X	X	X	
	6/16	1425			NS-TA-MMACROLEPIDOTUM-W-1-5				1	X	X	X	
	6/16	1430			NS-TA-MMACROLEPIDOTUM-W-1-6				1	X	X	X	
	~~6/17~~	~~1000~~			~~NS-TA-MMACROLEPIDOTUM-W-1-7~~		BB		0				
	~~6/15~~	~~1005~~			~~NS-TA-MMACROLEPIDOTUM-W-1-8~~		BB		0				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patnoad	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Cont VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth (- Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes.
Please Fax written changes
(802) 655 1248

TL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688325
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED: STM PAH; LIPIDS; % SOLIDS

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	0845		X	NS-TA-MMACROLEPIDOTUM-F-1-1				1	X	X	X	
	6/15	2250			NS-TA-MMACROLEPIDOTUM-F-1-2				1	X	X	X	
	6/15	2300			NS-TA-MMACROLEPIDOTUM-F-1-3				1	X	X	X	
	6/15	2305			NS-TA-MMACROLEPIDOTUM-F-1-4				1	X	X	X	
	6/15	2310			NS-TA-MMACROLEPIDOTUM-F-1-5				1	X	X	X	
	6/15	2315			NS-TA-MMACROLEPIDOTUM-F-1-6				1	X	X	X	
	6/15	2320			NS-TA-MMACROLEPIDOTUM-F-1-7				1	X	X	X	
	6/15	2325			NS-TA-MMACROLEPIDOTUM-F-1-8				1	X	X	X	
	6/15	1325			NS-TA-MMACROLEPIDOTUM-F-3-1				1	X	X	X	
U	6/15	1330		U	NS-TA-MMACROLEPIDOTUM-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patrowal	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

TL8234-200 (12/02)

5 -

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 2 3 4 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP / Ashland Lake front Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	CIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	1335		X	NS-TA-MMACROLEPIDOTUM-F-3-3				1	X	X	X	
	6/15	1340			NS-TA-MMACROLEPIDOTUM-F-3-4				1	X	X	X	
	6/15	1345			NS-TA-MMACROLEPIDOTUM-F-3-5				1	X	X	X	
	6/15	1350			NS-TA-MMACROLEPIDOTUM-F-3-6				1	X	X	X	
	6/16	1045			NS-TA-MMACROLEPIDOTUM-F-3-7				1	X	X	X	
	6/16	1050			NS-TA-MMACROLEPIDOTUM-F-3-8				1	X	X	X	
	6/15	0800			NS-TA-ARUPESTRIS-W-1-1				1	X	X	X	
	6/16	1700			NS-TA-ARUPESTRIS-W-1-2				1	X	X	X	
	6/16	1705			NS-TA-ARUPESTRIS-W-1-3				1	X	X	X	
	6/16	1715			NS-TA-ARUPESTRIS-W-1-4				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnoal	~~06-30-05~~ 06-18-05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Contai VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth Plastic or other Vacuum Seal Bag

STL cannot accept verbal chang
Please Fax written changes
(802) 655-1248

TL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 2 3 4 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: [signature]

Proj. No.: 25684375
Project Name: NSP/~~Lake Front~~ Ashland Lake Front Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1720			NS-TA-ARUPESTRIS-W-1-5				1	X	X	X	
	6/16	1725			NS-TA-ARUPESTRIS-W-1-6				1	X	X	X	
	6/16	1730			NS-TA-ARUPESTRIS-W-1-7				1	X	X	X	
	6/16	1735			NS-TA-ARUPESTRIS-W-1-8				1	X	X	X	
	6/15	0955			NS-TA-ARUPESTRIS-W-3-1				1	X	X	X	
	6/16	1030			NS-TA-ARUPESTRIS-W-3-2				1	X	X	X	
	6/16	1035			NS-TA-ARUPESTRIS-W-3-3				1	X	X	X	
	6/16	1040			NS-TA-ARUPESTRIS-W-3-4				1	X	X	X	
	6/16	1045			NS-TA-ARUPESTRIS-W-3-5				1	X	X	X	
	6/16	1055			NS-TA-ARUPESTRIS-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patrick	6.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

7-1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:

Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:

Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 688375
Project Name: NSP/Ashland Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED: SIMPAH, LIPIDS, % SOLIDS

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
	6/16	1100		X	NS-TA-ARUPESTRIS-W-3-7				1	X	X	X	
	6/16	1105			NS-TA-ARUPESTRIS-W-3-8				1	X	X	X	
	6/15	1300			NS-TA-MADOLOMIEUI-W-3-1				1	X	X	X	
	6/15	1305			NS-TA-MADOLOMIEUI-W-3-2				1	X	X	X	
	6/15	1310			NS-TA-MADOLOMIEUI-W-3-3				1	X	X	X	
	6/16	1015			NS-TA-MADOLOMIEUI-W-3-4				1	X	X	X	
	6/16	1020			NS-TA-MADOLOMIEUI-W-3-5				1	X	X	X	
	6/15	1600			NS-TA-MADOLOMIEUI-W-1-1				1	X	X	X	
	6/15	1605			NS-TA-MADOLOMIEUI-W-1-2				1	X	X	X	
	6/15	1610			NS-TA-MADOLOMIEUI-W-1-3				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnaude	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG #. 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes
Please Fax written changes to (802) 655 1248

8-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: [signature]

Proj. No.: 25688375
Project Name: NSP / Ashland ~~Superfund~~ Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMDAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	1615		X	NS-TA-MDOLOMIEUI-W-1-4				1	X	X	X	
	6/15	1620			NS-TA-MDOLOMIEUI-W-1-5				1	X	X	X	
	6/15	1625			NS-TA-MDOLOMIEUI-W-1-6				1	X	X	X	
	6/15	1630			NS-TA-MDOLOMIEUI-W-1-7				1	X	X	X	
	6/16	1740			NS-TA-ANEBULOSUS-W-1-1				1	X	X	X	
	6/16	1745			NS-TA-ANEBULOSUS-W-1-2				1	X	X	X	
	6/16	1750			NS-TA-ANEBULOSUS-W-1-3				1	X	X	X	
	6/16	1755			NS-TA-ANEBULOSUS-W-1-4				1	X	X	X	
	6/16	1800			NS-TA-ANEBULOSUS-W-1-5				1	X	X	X	
	6/16	1805			NS-TA-ANEBULOSUS-W-1-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patnoul	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks
COPY ORIGINAL ON FILE
SDG #. 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

9-1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP/Ashland Lakefront Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	STM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1810		X	NS-TA-ANEBULOSUS-W-1-7				1	X	X	X	
	6/16	1815			NS-TA-ANEBULOSUS-W-1-8				1	X	X	X	
	6/17	1030			NS-TA-ANEBULOSUS-W-3-1				1	X	X	X	
	6/17	1035			NS-TA-ANEBULOSUS-W-3-2				1	X	X	X	
	6/17	1040			NS-TA-ANEBULOSUS-W-3-3				1	X	X	X	
	6/17	1045			NS-TA-ANEBULOSUS-W-3-4				1	X	X	X	
	6/17	1050			NS-TA-ANEBULOSUS-W-3-5				1	X	X	X	
	6/17	1100			NS-TA-SUITREUM-W-1-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Brian Berner	6/17/05	1630	Lynda Patton	6/18/05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks: Copy - Original on file with JMM 9/27/05 SDG 108055 ETR 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix: WW - Wastewater, W - Water, S - Soil, L - Liquid, A - Air bag, C - Charcoal Tube, SL - Sludge, O - Oil
[2]Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

L8234-200 (12/02)

1 of 1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:		Invoice to:	
Company:	URS Corp	Company:	URS Corp
Address:	10200 Innovation Drive Ste 500 Milwaukee WI 53226	Address:	10200 Innovation Dr Ste 500, Milwaukee WI 53226
Contact:	Brian Bener	Contact:	Paul Sklar
Phone:	414-831-4000	Phone:	414-831-4000
Fax:	414-831-4101	Fax:	414-831-4101
Contract/ Quote:	Quote # 2593		

Sampler's Name: Richard Wildermuth, Josh Collins

Sampler's Signature: [signature]

Proj. No.:

Project Name:

No/Type of Containers[2]:

ANALYSIS REQUESTED

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAN	Lipids	900 solids								Lab/Sample ID (Lab Use Only)
TA	6/21	1145			NS-TA-M.dolomive-W-3-6					X	X	X								
TA	6/21	1150			NS-TA-M.dolomive-W-3-7					X	X	X								

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/22/05	1100	[signature]	06.23.05	0930
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other vacuum bags

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT STL

Sample Data Summary Package
For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-3-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627480

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 26.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		26.1	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-3-DUP1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627481

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 26.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		26.4	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-3-2

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108176

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627482

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 24.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		24.8	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-3-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627483

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 25.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		25.2	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-3-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627484

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 26.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		26.5	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-3-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627485

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		23.0	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-1-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627486

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 24.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		24.1	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-1-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627487

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 28.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		28.6	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-3

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108176

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627488

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 26.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		26.1	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627489

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids: 23.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		23.5	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-5

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108176

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627490

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 27.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		27.5	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-6

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627491

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids: 25.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		25.7	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-1-7

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627492

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 27.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		27.0	

Printed on: 08/08/05 08:06 AM

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
MDOLOMIEUI-W-1-7REP

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627492DP

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 25.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	07/26/05	N/A	%	27.0		25.1		7

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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WET CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIVE-W-3-6

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108176

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627518

Matrix: TISSUE

Client: URSCO9

Date Received: 06/23/05

% Solids: 26.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		26.7	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
MDOLOMIVE-W-3-7

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108176

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627519

Matrix: TISSUE
Client: URSCO9
Date Received: 06/23/05

% Solids: 26.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		26.3	

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SEVERN TRENT STL

Geotechnical Analysis
Sample Data Summary Package

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-3-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627480

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	3.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-3-DUP1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627481

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	3.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-3-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627482

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	2.9	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-3-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627483

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	1.3	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-3-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627484

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	1.7	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-3-5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627485

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	1.6	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627487

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	3.4	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627488

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	3.8	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627489

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	1.3	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627490

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	2.0	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-6

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627491

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	3.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-7

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627492

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	2.5	

Printed on: 07/25/05 03:44 PM

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

MDOLOMIEUI-W-1-7REP

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627492DP

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	07/22/05		%	2.5		3.1		21

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

Printed on: 07/25/05 03:44 PM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EB4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108176

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627494

Matrix: SOLID | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/22/05		%	1	0.1	0.1	U

Printed on: 07/25/05 03:44 PM

Percent Lipids Calculations

Date: 7/22/2005 **Analyst:** DI

Time: 1055 **ETR(s):** 108176

Client: URSCO9

Sample ID	Sample Weight (g)	Dish (g)	Dish/Residue (g)	Extract Final Volume (mLs)	Aliquot Used in Determination (mLs)	% Lipids
MBLKC8	40.00	0.9862	0.9860	10	1	< 0.1
LCSC8	40.00	1.0157	1.0155	10	1	< 0.1
627480	40.05	1.0164	1.1404	10	1	3.1
627481	40.03	1.0103	1.1333	10	1	3.1
627482	40.03	1.0075	1.1237	10	1	2.9
627483	39.95	1.0099	1.0629	10	1	1.3
627484	40.05	1.0093	1.0758	10	1	1.7
627485	40.03	0.9976	1.0609	10	1	1.6
628486	39.98	1.0143	1.1423	10	1	3.2
627487	40.04	1.0132	1.1481	10	1	3.4
627488	40.01	1.0205	1.1727	10	1	3.8
627489	40.01	1.0192	1.0703	10	1	1.3
627490	39.99	1.0166	1.0978	10	1	2.0
627491	40.05	1.0138	1.1399	10	1	3.1
627492	40.04	1.0091	1.1079	10	1	2.5
627492DP	39.99	0.9949	1.1172	10	1	3.1
627494	40.04	0.9944	0.9943	10	1	< 0.1
						#DIV/0!
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SEVERN TRENT STL

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SAMPLE DATA SUMMARY PACKAGE

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

MIEUIW1-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627486

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627486

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	5.0	
91-57-6	2-Methylnaphthalene	5.0	
90-12-0	1-Methylnaphthalene	3.4	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	3.0	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.9	
2245-38-7	2,3,5 Trimethylnaphthalene	2.3	
86-73-7	Fluorene	2.9	
85-01-8	Phenanthrene	8.8	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.4	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW1-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627487

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627487

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	5.8	
91-57-6	2-Methylnaphthalene	5.4	
90-12-0	1-Methylnaphthalene	3.7	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.6	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.0	
2245-38-7	2,3,5 Trimethylnaphthalene	2.3	
86-73-7	Fluorene	2.7	
85-01-8	Phenanthrene	7.7	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.1	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW1-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627488

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627488

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	5.9	
91-57-6	2-Methylnaphthalene	6.4	
90-12-0	1-Methylnaphthalene	4.4	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	3.3	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.7	
2245-38-7	2,3,5 Trimethylnaphthalene	2.3	
86-73-7	Fluorene	3.1	
85-01-8	Phenanthrene	8.1	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.2	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW1-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627489

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627489

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.4	
91-57-6	2-Methylnaphthalene	5.7	
90-12-0	1-Methylnaphthalene	3.4	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.1	
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	6.1	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW1-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627490

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627490

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.9	
91-57-6	2-Methylnaphthalene	6.1	
90-12-0	1-Methylnaphthalene	3.9	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	3.1	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.8	
2245-38-7	2,3,5 Trimethylnaphthalene	2.8	
86-73-7	Fluorene	2.5	
85-01-8	Phenanthrene	6.3	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW1-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627491

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627491

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.4	
91-57-6	2-Methylnaphthalene	6.1	
90-12-0	1-Methylnaphthalene	3.9	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	3.0	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.2	
2245-38-7	2,3,5 Trimethylnaphthalene	2.8	
86-73-7	Fluorene	3.1	
85-01-8	Phenanthrene	7.0	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

MIEUIW1-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627492

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627492

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 08/01/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.9	
91-57-6	2-Methylnaphthalene	6.1	
90-12-0	1-Methylnaphthalene	3.9	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.9	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.8	
2245-38-7	2,3,5 Trimethylnaphthalene	2.4	
86-73-7	Fluorene	3.5	
85-01-8	Phenanthrene	9.7	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.8	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW3-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627480

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627480

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	13	
90-12-0	1-Methylnaphthalene	25	
92-52-4	Biphenyl	2.4	
581-42-0	2,6 Dimethylnaphthalene	16	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	31	
2245-38-7	2,3,5 Trimethylnaphthalene	4.4	
86-73-7	Fluorene	12	
85-01-8	Phenanthrene	15	
120-12-7	Anthracene	2.5	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.3	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW3-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627482

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627482

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	11	
90-12-0	1-Methylnaphthalene	24	
92-52-4	Biphenyl	2.1	
581-42-0	2,6 Dimethylnaphthalene	14	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	30	
2245-38-7	2,3,5 Trimethylnaphthalene	4.0	
86-73-7	Fluorene	11	
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	2.1	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.1	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW3-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627483

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627483

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/29/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.9	
91-57-6	2-Methylnaphthalene	6.0	
90-12-0	1-Methylnaphthalene	8.5	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	4.6	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	9.1	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.2	
85-01-8	Phenanthrene	5.7	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW3-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627484

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627484

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 08/01/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.4	
91-57-6	2-Methylnaphthalene	7.8	
90-12-0	1-Methylnaphthalene	8.1	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	4.2	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	8.5	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	3.4	
85-01-8	Phenanthrene	8.1	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	6.3	
129-00-0	Pyrene	4.2	
56-55-3	Benzo(a)anthracene	2.6	
218-01-9	Chrysene	3.0	
205-99-2	Benzo(b)fluoranthene	2.5	
207-08-9	Benzo(k)fluoranthene	2.0	
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW3-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627485

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627485

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	4.8	
91-57-6	2-Methylnaphthalene	5.0	
90-12-0	1-Methylnaphthalene	5.1	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.9	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	6.5	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.3	
85-01-8	Phenanthrene	5.6	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.2	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW3-DUP1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627481

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627481

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/29/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	13	
90-12-0	1-Methylnaphthalene	24	
92-52-4	Biphenyl	2.4	
581-42-0	2,6 Dimethylnaphthalene	16	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	31	
2245-38-7	2,3,5 Trimethylnaphthalene	4.6	
86-73-7	Fluorene	12	
85-01-8	Phenanthrene	15	
120-12-7	Anthracene	2.5	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.2	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIVEW3-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627518

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627518

Level: (low/med) LOW Date Received: 06/23/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/29/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	21	
91-57-6	2-Methylnaphthalene	12	
90-12-0	1-Methylnaphthalene	33	
92-52-4	Biphenyl	2.2	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	27	
2245-38-7	2,3,5 Trimethylnaphthalene	3.2	
86-73-7	Fluorene	8.7	
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	2.7	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.3	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSC09 SAMPLE NO.

MIVEW3-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627519

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627519

Level: (low/med) LOW Date Received: 06/23/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/29/05

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.4	
91-57-6	2-Methylnaphthalene	5.1	
90-12-0	1-Methylnaphthalene	3.5	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	3.2	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.2	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.2	
85-01-8	Phenanthrene	6.2	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.4	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

EB4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627494

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627494

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

MBLKC8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: MBLKC8

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0721C8

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

MBLKD5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: MBLKD5

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0721D5

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW1-7MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627492MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627492M

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	16	
91-57-6	2-Methylnaphthalene	17	
90-12-0	1-Methylnaphthalene	14	
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	13	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	14	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	13	
85-01-8	Phenanthrene	20	
120-12-7	Anthracene	9.9	
832-69-9	1-Methylphenanthrene	9.8	
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	8.8	
192-97-2	Benzo(e)pyrene	9.9	
50-32-8	Benzo(a)pyrene	9.4	
198-55-0	Perylene	9.9	
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	
53-70-3	Dibenz(a,h)anthracene	10	
191-24-2	Benzo(g,h,i)perylene	9.5	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

MIEUIW1-7MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: 627492MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627492S

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	16	
91-57-6	2-Methylnaphthalene	17	
90-12-0	1-Methylnaphthalene	14	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	13	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	14	
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	13	
85-01-8	Phenanthrene	20	
120-12-7	Anthracene	9.9	
832-69-9	1-Methylphenanthrene	10	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	12	
205-99-2	Benzo(b)fluoranthene	10	
207-08-9	Benzo(k)fluoranthene	9.4	
192-97-2	Benzo(e)pyrene	9.5	
50-32-8	Benzo(a)pyrene	9.4	
198-55-0	Perylene	10	
193-39-5	Indeno(1,2,3-cd)pyrene	8.9	
53-70-3	Dibenz(a,h)anthracene	10	
191-24-2	Benzo(g,h,i)perylene	9.7	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

C8LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: C8LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0721C8

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/29/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	10	
90-12-0	1-Methylnaphthalene	9.9	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	10	
208-96-8	Acenaphthylene	10	
83-32-9	Acenaphthene	10	
2245-38-7	2,3,5 Trimethylnaphthalene	10	
86-73-7	Fluorene	10	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	10	
832-69-9	1-Methylphenanthrene	11	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	10	
205-99-2	Benzo(b)fluoranthene	12	
207-08-9	Benzo(k)fluoranthene	9.9	
192-97-2	Benzo(e)pyrene	11	
50-32-8	Benzo(a)pyrene	10	
198-55-0	Perylene	9.8	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenz(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	11	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

D5LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix: (soil/water) TISSUE Lab Sample ID: D5LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0721D5

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/21/05

Concentrated Extract Volume: 2000(uL) Date Analyzed: 08/01/05

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	11	
90-12-0	1-Methylnaphthalene	11	
92-52-4	Biphenyl	10	
581-42-0	2,6 Dimethylnaphthalene	10	
208-96-8	Acenaphthylene	10	
83-32-9	Acenaphthene	10	
2245-38-7	2,3,5 Trimethylnaphthalene	10	
86-73-7	Fluorene	10	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	9.5	
832-69-9	1-Methylphenanthrene	9.8	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	12	
205-99-2	Benzo(b)fluoranthene	12	
207-08-9	Benzo(k)fluoranthene	8.4	
192-97-2	Benzo(e)pyrene	10	
50-32-8	Benzo(a)pyrene	10	
198-55-0	Perylene	10	
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenz(a,h)anthracene	10	
191-24-2	Benzo(g,h,i)perylene	9.3	

FORM 2
TISSUE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Level: (low/med) LOW

	STLVT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	C8LCS	80	80	78	75	72				0
02	MBLKC8	86	86	86	88	87				0
03	MBLKD5	87	110	108	108	97				0
04	MIEUIW3-1	60	69	62	63	64				0
05	MIEUIW3-DUP1	76	81	72	72	66				0
06	MIEUIW3-2	74	83	75	76	66				0
07	MIEUIW3-3	57	65	58	63	61				0
08	MIVEW3-6	65	78	68	65	78				0
09	MIVEW3-7	74	85	74	72	77				0
10	D5LCS	85	88	88	86	92				0
11	MIEUIW3-4	70	73	72	72	76				0
12	MIEUIW3-5	82	89	82	85	84				0
13	MIEUIW1-1	67	69	66	66	62				0
14	MIEUIW1-2	74	77	72	80	76				0
15	MIEUIW1-3	63	66	63	68	58				0
16	MIEUIW1-4	68	70	69	72	64				0
17	MIEUIW1-5	64	67	64	67	60				0
18	MIEUIW1-6	76	81	78	82	71				0
19	MIEUIW1-7	55	55	54	58	54				0
20	MIEUIW1-7MS	65	71	69	77	68				0
21	MIEUIW1-7MSD	79	86	81	92	81				0
22	EB4	75	77	75	92	74				0
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1	= Naphthalene-d8 (SS)	(20-130)
S2	= Acenaphthene-d10 (SS)	(20-130)
S3	= Phenanthrene-d10 (SS)	(20-130)
S4	= Chrysene-d12 (SS)	(20-130)
S5	= Perylene-d12 (SS)	(20-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix Spike - URSCO9 Sample No.: MIEUIW1-7 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	10	6.9	16	91	60-140
2-Methylnaphthalene	10	6.1	17	109	60-140
1-Methylnaphthalene	10	3.9	14	101	60-140
Biphenyl	10	0.0	11	110	60-140
2,6 Dimethylnaphthalene	10	2.9	13	101	60-140
Acenaphthylene	10	0.0	11	110	60-140
Acenaphthene	10	3.8	14	102	60-140
2,3,5 Trimethylnaphthal	10	2.4	13	106	60-140
Fluorene	10	3.5	13	95	60-140
Phenanthrene	10	9.7	20	103	60-140
Anthracene	10	0.0	9.9	99	60-140
1-Methylphenanthrene	10	0.0	9.8	98	60-140
Fluoranthene	10	2.8	12	92	60-140
Pyrene	10	0.0	11	110	60-140
Benzo(a)anthracene	10	0.0	10	100	60-140
Chrysene	10	0.0	11	110	60-140
Benzo(b)fluoranthene	10	0.0	11	110	60-140
Benzo(k)fluoranthene	10	0.0	8.8	88	60-140
Benzo(e)pyrene	10	0.0	9.9	99	60-140
Benzo(a)pyrene	10	0.0	9.4	94	60-140
Perylene	10	0.0	9.9	99	60-140
Indeno(1,2,3-cd)pyrene	10	0.0	9.2	92	60-140
Dibenz(a,h)anthracene	10	0.0	10	100	60-140
Benzo(g,h,i)perylene	10	0.0	9.5	95	60-140

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

COMMENTS: _____

FORM 3

TISSUE SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix Spike - URSCO9 Sample No.: MIEUIW1-7 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	16	91	0	40	60-140
2-Methylnaphthalene	10	17	109	0	40	60-140
1-Methylnaphthalene	10	14	101	0	40	60-140
Biphenyl	10	10	100	10	40	60-140
2,6 Dimethylnaphthalene	10	13	101	0	40	60-140
Acenaphthylene	10	11	110	0	40	60-140
Acenaphthene	10	14	102	0	40	60-140
2,3,5 Trimethylnaphthal	10	13	106	0	40	60-140
Fluorene	10	13	95	0	40	60-140
Phenanthrene	10	20	103	0	40	60-140
Anthracene	10	9.9	99	0	40	60-140
1-Methylphenanthrene	10	10	100	2	40	60-140
Fluoranthene	10	13	102	10	40	60-140
Pyrene	10	11	110	0	40	60-140
Benzo(a)anthracene	10	11	110	10	40	60-140
Chrysene	10	12	120	9	40	60-140
Benzo(b)fluoranthene	10	10	100	10	40	60-140
Benzo(k)fluoranthene	10	9.4	94	6	40	60-140
Benzo(e)pyrene	10	9.5	95	4	40	60-140
Benzo(a)pyrene	10	9.4	94	0	40	60-140
Perylene	10	10	100	1	40	60-140
Indeno(1,2,3-cd)pyrene	10	8.9	89	3	40	60-140
Dibenz(a,h)anthracene	10	10	100	0	40	60-140
Benzo(g,h,i)perylene	10	9.7	97	2	40	60-140

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

RPD: 0 out of 24 outside limits
Spike Recovery: 0 out of 48 outside limits

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix Spike - STLVT Sample No.: C8LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		10	100	60-140
2-Methylnaphthalene	10		10	100	60-140
1-Methylnaphthalene	10		9.9	99	60-140
Biphenyl	10		10	100	60-140
2,6 Dimethylnaphthalene	10		10	100	60-140
Acenaphthylene	10		10	100	60-140
Acenaphthene	10		10	100	60-140
2,3,5 Trimethylnaphthal	10		10	100	60-140
Fluorene	10		10	100	60-140
Phenanthrene	10		11	110	60-140
Anthracene	10		10	100	60-140
1-Methylphenanthrene	10		11	110	60-140
Fluoranthene	10		11	110	60-140
Pyrene	10		11	110	60-140
Benzo(a)anthracene	10		11	110	60-140
Chrysene	10		10	100	60-140
Benzo(b)fluoranthene	10		12	120	60-140
Benzo(k)fluoranthene	10		9.9	99	60-140
Benzo(e)pyrene	10		11	110	60-140
Benzo(a)pyrene	10		10	100	60-140
Perylene	10		9.8	98	60-140
Indeno(1,2,3-cd)pyrene	10		11	110	60-140
Dibenz(a,h)anthracene	10		11	110	60-140
Benzo(g,h,i)perylene	10		11	110	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 24 outside limits

COMMENTS: _____

FORM 3
TISSUE SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Matrix Spike - STLVT Sample No.: D5LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		10	100	60-140
2-Methylnaphthalene	10		11	110	60-140
1-Methylnaphthalene	10		11	110	60-140
Biphenyl	10		10	100	60-140
2,6 Dimethylnaphthalene	10		10	100	60-140
Acenaphthylene	10		10	100	60-140
Acenaphthene	10		10	100	60-140
2,3,5 Trimethylnaphthal	10		10	100	60-140
Fluorene	10		10	100	60-140
Phenanthrene	10		10	100	60-140
Anthracene	10		9.5	95	60-140
1-Methylphenanthrene	10		9.8	98	60-140
Fluoranthene	10		10	100	60-140
Pyrene	10		10	100	60-140
Benzo(a)anthracene	10		10	100	60-140
Chrysene	10		12	120	60-140
Benzo(b)fluoranthene	10		12	120	60-140
Benzo(k)fluoranthene	10		8.4	84	60-140
Benzo(e)pyrene	10		10	100	60-140
Benzo(a)pyrene	10		10	100	60-140
Perylene	10		10	100	60-140
Indeno(1,2,3-cd)pyrene	10		10	100	60-140
Dibenz(a,h)anthracene	10		10	100	60-140
Benzo(g,h,i)perylene	10		9.3	93	60-140

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 24 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

MBLKC8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID: B0721C8 Lab Sample ID: MBLKC8

Instrument ID: Y Date Extracted: 07/21/05

Matrix: (soil/water) TISSUE Date Analyzed: 07/29/05

Level:(low/med) LOW Time Analyzed: 1512

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	C8LCS	C8LCS	Q0721C8	07/29/05
02	MIEUIW3-1	627480	627480	07/29/05
03	MIEUIW3-DUP1	627481	627481	07/29/05
04	MIEUIW3-2	627482	627482	07/29/05
05	MIEUIW3-3	627483	627483	07/29/05
06	MIEUIW3-4	627484	627484	08/01/05
07	MIEUIW3-5	627485	627485	08/01/05
08	MIEUIW1-1	627486	627486	08/01/05
09	MIEUIW1-2	627487	627487	08/01/05
10	MIEUIW1-3	627488	627488	08/01/05
11	MIEUIW1-4	627489	627489	08/01/05
12	MIEUIW1-5	627490	627490	08/01/05
13	MIEUIW1-6	627491	627491	08/01/05
14	MIEUIW1-7	627492	627492	08/01/05
15	MIEUIW1-7MS	627492MS	627492M	08/01/05
16	MIEUIW1-7MSD	627492MD	627492S	08/01/05
17	EB4	627494	627494	08/01/05
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COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

MBLKD5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID: B0721D5 Lab Sample ID: MBLKD5

Instrument ID: Y Date Extracted: 07/21/05

Matrix: (soil/water) TISSUE Date Analyzed: 07/29/05

Level: (low/med) LOW Time Analyzed: 1659

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	MIVEW3-6	627518	627518	07/29/05
02	MIVEW3-7	627519	627519	07/29/05
03	D5LCS	D5LCS	Q0721D5	08/01/05
04				
05				
06				
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID: YID01PS DFTPP Injection Date: 07/28/05

Instrument ID: Y DFTPP Injection Time: 1112

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	63.3
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	45.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.51
441	Present, but less than mass 443	11.4
442	Greater than 40.0% of mass 198	77.8
443	17.0 - 23.0% of mass 442	15.7 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YID500	07/28/05	1246
02	SSTD040	SSTD040	YID040	07/28/05	1322
03	SSTD200	SSTD200	YID200	07/28/05	1358
04	SSTD2000	SSTD2000	YID2000	07/28/05	1433
05	SSTD1000	SSTD1000	YID1000	07/28/05	1509
06					
07					
08					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID: YID02PS DFTPP Injection Date: 07/29/05

Instrument ID: Y DFTPP Injection Time: 0934

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	63.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	19.9
365	Greater than 1.0% of mass 198	2.65
441	Present, but less than mass 443	10.6
442	Greater than 40.0% of mass 198	74.2
443	17.0 - 23.0% of mass 442	14.4 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YID500A	07/29/05	1001
02	C8LCS	C8LCS	Q0721C8	07/29/05	1437
03	MBLKC8	MBLKC8	B0721C8	07/29/05	1512
04	MBLKD5	MBLKD5	B0721D5	07/29/05	1659
05	MIEUIW3-1	627480	627480	07/29/05	1734
06	MIEUIW3-DUP1	627481	627481	07/29/05	1810
07	MIEUIW3-2	627482	627482	07/29/05	1845
08	MIEUIW3-3	627483	627483	07/29/05	1921
09	MIVEW3-6	627518	627518	07/29/05	1956
10	MIVEW3-7	627519	627519	07/29/05	2032
11					
12					
13					
14					
15					
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17					
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19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID: YID07PS DFTPP Injection Date: 08/01/05

Instrument ID: Y DFTPP Injection Time: 1205

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	62.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.7
365	Greater than 1.0% of mass 198	3.11
441	Present, but less than mass 443	12.9
442	Greater than 40.0% of mass 198	82.4
443	17.0 - 23.0% of mass 442	16.4 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YID500B	08/01/05	1248
02	D5LCS	D5LCS	Q0721D5	08/01/05	1347
03	MIEUIW3-4	627484	627484	08/01/05	1422
04	MIEUIW3-5	627485	627485	08/01/05	1458
05	MIEUIW1-1	627486	627486	08/01/05	1533
06	MIEUIW1-2	627487	627487	08/01/05	1609
07	MIEUIW1-3	627488	627488	08/01/05	1645
08	MIEUIW1-4	627489	627489	08/01/05	1720
09	MIEUIW1-5	627490	627490	08/01/05	1756
10	MIEUIW1-6	627491	627491	08/01/05	1831
11	MIEUIW1-7	627492	627492	08/01/05	1907
12	MIEUIW1-7MS	627492MS	627492M	08/01/05	1942
13	MIEUIW1-7MSD	627492MD	627492S	08/01/05	2018
14	EB4	627494	627494	08/01/05	2053
15					
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6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Instrument ID: Y Calibration Date(s): 07/28/05 07/28/05

Calibration Time(s): 1246 1509

LAB FILE ID: RRF40 =YID040 RRF200=YID200
RRF500=YID500 RRF1000=YID1000 RRF2000=YID2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.001	1.069	1.068	1.152	1.037	1.065	5.2*
2-Methylnaphthalene *	0.645	0.688	0.690	0.742	0.688	0.691	5.0*
1-Methylnaphthalene *	0.572	0.643	0.627	0.690	0.617	0.630	6.8*
Biphenyl *	1.572	1.731	1.734	1.784	1.671	1.698	4.8*
2,6 Dimethylnaphthalene *	1.166	1.271	1.280	1.708	1.437	1.372	15.4*
Acenaphthylene *	1.982	2.115	2.187	2.177	2.064	2.105	4.0*
Acenaphthene *	1.216	1.227	1.211	1.260	1.225	1.228	1.6*
2,3,5 Trimethylnaphthalene *	1.113	1.114	1.073	1.108	1.061	1.094	2.3*
Fluorene *	1.442	1.464	1.429	1.437	1.401	1.435	1.6*
Phenanthrene *	1.476	1.403	1.335	1.387	1.301	1.380	4.9*
Anthracene *	1.521	1.475	1.300	1.425	1.296	1.403	7.3*
1-Methylphenanthrene *	1.007	0.922	0.921	0.976	0.926	0.950	4.1*
Fluoranthene *	1.517	1.367	1.313	1.366	1.276	1.368	6.7*
Pyrene *	1.585	1.415	1.414	1.510	1.416	1.468	5.3*
Benzo(a)anthracene *	1.546	1.455	1.444	1.440	1.386	1.454	4.0*
Chrysene *	1.638	1.549	1.333	1.389	1.318	1.445	9.8*
Benzo(b)fluoranthene *	1.574	1.222	1.288	1.374	1.414	1.374	9.8*
Benzo(k)fluoranthene *	1.619	1.779	1.605	1.585	1.446	1.607	7.4*
Benzo(e)pyrene *	1.322	1.200	1.177	1.195	1.138	1.206	5.7*
Benzo(a)pyrene *	1.340	1.214	1.160	1.199	1.161	1.215	6.1*
Perylene *	1.459	1.423	1.296	1.381	1.344	1.381	4.7*
Indeno(1,2,3-cd)pyrene *	0.921	0.939	0.881	0.950	0.928	0.924	2.8*
Dibenz(a,h)anthracene *	0.756	0.764	0.687	0.740	0.727	0.735	4.1*
Benzo(g,h,i)perylene *	0.720	0.696	0.671	0.721	0.713	0.704	3.0*
Naphthalene-d8(SS) *	1.361	1.391	1.552	1.285	1.354	1.389	7.2*
Acenaphthene-d10(SS) *	0.718	0.720	0.786	0.686	0.695	0.721	5.4*
Phenanthrene-d10(SS) *	1.084	1.091	1.225	1.038	1.063	1.100	6.6*
Chrysene-d12(SS) *	1.107	1.073	1.134	1.002	1.003	1.064	5.6*
Perylene-d12(SS) *	0.814	0.800	0.848	0.735	0.753	0.790	5.8*

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Instrument ID: Y Calibration Date: 07/29/05 Time: 1001

Lab File ID: YID500A Init. Calib. Date(s): 07/28/05 07/28/05

Init. Calib. Times: 1246 1509

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.065	1.047	0.2	1.7	25.0
2-Methylnaphthalene	0.691	0.696	0.2	0.7	25.0
1-Methylnaphthalene	0.630	0.622	0.2	1.3	25.0
Biphenyl	1.698	1.686	0.2	0.7	25.0
2,6 Dimethylnaphthalene	1.372	1.252	0.2	8.7	25.0
Acenaphthylene	2.105	2.092	0.2	0.6	25.0
Acenaphthene	1.228	1.211	0.2	1.4	25.0
2,3,5 Trimethylnaphthalene	1.094	1.070	0.2	2.2	25.0
Fluorene	1.435	1.377	0.2	4.0	25.0
Phenanthrene	1.380	1.326	0.2	3.9	25.0
Anthracene	1.403	1.278	0.2	8.9	25.0
1-Methylphenanthrene	0.950	0.859	0.2	9.6	25.0
Fluoranthene	1.368	1.260	0.2	7.9	25.0
Pyrene	1.468	1.308	0.2	10.9	25.0
Benzo(a)anthracene	1.454	1.378	0.2	5.2	25.0
Chrysene	1.445	1.281	0.2	11.3	25.0
Benzo(b)fluoranthene	1.374	1.308	0.2	4.8	25.0
Benzo(k)fluoranthene	1.607	1.508	0.2	6.2	25.0
Benzo(e)pyrene	1.206	1.057	0.2	12.4	25.0
Benzo(a)pyrene	1.215	1.150	0.2	5.3	25.0
Perylene	1.381	1.296	0.2	6.2	25.0
Indeno(1,2,3-cd)pyrene	0.924	0.878	0.2	5.0	25.0
Dibenz(a,h)anthracene	0.735	0.697	0.2	5.2	25.0
Benzo(g,h,i)perylene	0.704	0.613	0.2	12.9	25.0
Naphthalene-d8(SS)	1.389	1.350	0.2	2.8	25.0
Acenaphthene-d10(SS)	0.721	0.705	0.2	2.2	25.0
Phenanthrene-d10(SS)	1.100	1.121	0.2	1.9	25.0
Chrysene-d12(SS)	1.064	1.036	0.2	2.6	25.0
Perylene-d12(SS)	0.790	0.766	0.2	3.0	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Instrument ID: Y Calibration Date: 08/01/05 Time: 1248

Lab File ID: YID500B Init. Calib. Date(s): 07/28/05 07/28/05

Init. Calib. Times: 1246 1509

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.065	1.054	0.2	1.0	25.0
2-Methylnaphthalene	0.691	0.693	0.2	0.3	25.0
1-Methylnaphthalene	0.630	0.626	0.2	0.6	25.0
Biphenyl	1.698	1.706	0.2	0.5	25.0
2,6 Dimethylnaphthalene	1.372	1.253	0.2	8.7	25.0
Acenaphthylene	2.105	2.152	0.2	2.2	25.0
Acenaphthene	1.228	1.240	0.2	1.0	25.0
2,3,5 Trimethylnaphthalene	1.094	1.097	0.2	0.3	25.0
Fluorene	1.435	1.451	0.2	1.1	25.0
Phenanthrene	1.380	1.318	0.2	4.5	25.0
Anthracene	1.403	1.443	0.2	2.8	25.0
1-Methylphenanthrene	0.950	0.920	0.2	3.2	25.0
Fluoranthene	1.368	1.282	0.2	6.3	25.0
Pyrene	1.468	1.332	0.2	9.3	25.0
Benzo(a)anthracene	1.454	1.465	0.2	0.8	25.0
Chrysene	1.445	1.307	0.2	9.6	25.0
Benzo(b)fluoranthene	1.374	1.098	0.2	20.1	25.0
Benzo(k)fluoranthene	1.607	1.789	0.2	11.3	25.0
Benzo(e)pyrene	1.206	1.074	0.2	10.9	25.0
Benzo(a)pyrene	1.215	1.092	0.2	10.1	25.0
Perylene	1.381	1.242	0.2	10.1	25.0
Indeno(1,2,3-cd)pyrene	0.924	0.745	0.2	19.4	25.0
Dibenz(a,h)anthracene	0.735	0.575	0.2	21.8	25.0
Benzo(g,h,i)perylene	0.704	0.544	0.2	22.7	25.0
Naphthalene-d8(SS)	1.389	1.271	0.2	8.5	25.0
Acenaphthene-d10(SS)	0.721	0.664	0.2	7.9	25.0
Phenanthrene-d10(SS)	1.100	1.057	0.2	3.9	25.0
Chrysene-d12(SS)	1.064	1.043	0.2	2.0	25.0
Perylene-d12(SS)	0.790	0.670	0.2	15.2	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID (Standard): YID500A Date Analyzed: 07/29/05

Instrument ID: Y Time Analyzed: 1001

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	82015	10.03	42825	13.60	40514	14.62
	UPPER LIMIT	164030	10.53	85650	14.10	81028	15.12
	LOWER LIMIT	41008	9.53	21412	13.10	20257	14.12
	STLVT SAMPLE NO.						
01	C8LCS	43958	10.03	22866	13.58	27013	14.62
02	MBLKC8	45521	10.03	23793	13.58	26068	14.62
03	MBLKD5	36015*	10.03	23841	13.58	20541	14.62
04	MIEUIW3-1	33195*	10.03	19829*	13.58	27101	14.62
05	MIEUIW3-DUP1	40932*	10.03	22547	13.58	26408	14.62
06	MIEUIW3-2	39918*	10.03	23479	13.58	26787	14.60
07	MIEUIW3-3	29946*	10.03	17727*	13.58	25797	14.62
08	MIVEW3-6	32183*	10.03	20277*	13.57	24434	14.60
09	MIVEW3-7	38347*	10.03	23163	13.58	25664	14.62
10							
11							
12							
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19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID (Standard): YID500A Date Analyzed: 07/29/05

Instrument ID: Y Time Analyzed: 1001

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	68153	16.56	50223	21.94	32314	24.49
	UPPER LIMIT	136306	17.06	100446	22.44	64628	24.99
	LOWER LIMIT	34076	16.06	25112	21.44	16157	23.99
	STLVT SAMPLE NO.						
01	C8LCS	35605	16.56	26108	21.91	22485	24.49
02	MBLKC8	37946	16.56	27141	21.94	19824	24.49
03	MBLKD5	37370	16.56	28261	21.91	16782	24.49
04	MIEUIW3-1	28495*	16.56	21346*	21.91	21739	24.48
05	MIEUIW3-DUP1	32145*	16.56	23127*	21.91	20643	24.48
06	MIEUIW3-2	33687*	16.54	23818*	21.94	20294	24.49
07	MIEUIW3-3	25398*	16.56	18771*	21.91	19259	24.48
08	MIVEW3-6	28063*	16.54	19657*	22.06	19580	24.55
09	MIVEW3-7	32150*	16.56	21044*	22.02	18680	24.55
10							
11							
12							
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18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID (Standard): YID500A Date Analyzed: 07/29/05

Instrument ID: Y Time Analyzed: 1001

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	37121	24.64				
	UPPER LIMIT	74242	25.14				
	LOWER LIMIT	18560	24.14				
	STLVT SAMPLE NO.						
01	C8LCS	18720	24.62				
02	MBLKC8	19770	24.62				
03	MBLKD5	18712	24.62				
04	MIEUIW3-1	15944*	24.62				
05	MIEUIW3-DUP1	15717*	24.64				
06	MIEUIW3-2	15387*	24.64				
07	MIEUIW3-3	13485*	24.62				
08	MIVEW3-6	17582*	24.68				
09	MIVEW3-7	16628*	24.68				
10							
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17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID (Standard): YID500B Date Analyzed: 08/01/05

Instrument ID: Y Time Analyzed: 1248

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	55866	10.03	29211	13.60	29309	14.62
	UPPER LIMIT	111732	10.53	58422	14.10	58618	15.12
	LOWER LIMIT	27933	9.53	14606	13.10	14654	14.12
	STLVT SAMPLE NO.						
01	D5LCS	39854	10.04	21546	13.60	24665	14.62
02	MIEUIW3-4	31851	10.03	17479	13.60	24043	14.62
03	MIEUIW3-5	39366	10.03	22427	13.57	25222	14.62
04	MIEUIW1-1	33249	10.03	17890	13.59	26073	14.62
05	MIEUIW1-2	37220	10.03	20342	13.60	26524	14.62
06	MIEUIW1-3	30316	10.04	16716	13.60	25203	14.62
07	MIEUIW1-4	34684	10.04	18780	13.59	26732	14.62
08	MIEUIW1-5	31100	10.03	16935	13.60	25292	14.62
09	MIEUIW1-6	34932	10.03	19661	13.60	24241	14.62
10	MIEUIW1-7	27029*	10.03	14013*	13.60	25736	14.62
11	MIEUIW1-7MS	32208	10.03	18465	13.59	26127	14.62
12	MIEUIW1-7MSD	36162	10.03	20549	13.59	24042	14.62
13	EB4	35319	10.03	18877	13.60	24623	14.62
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID (Standard): YID500B Date Analyzed: 08/01/05

Instrument ID: Y Time Analyzed: 1248

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	46474	16.56	30883	21.94	19732	24.49
	UPPER LIMIT	92948	17.06	61766	22.44	39464	24.99
	LOWER LIMIT	23237	16.06	15442	21.44	9866	23.99
	STLVT SAMPLE NO.						
01	D5LCS	34399	16.56	22547	21.94	16720	24.49
02	MIEUIW3-4	27303	16.56	18020	21.94	15941	24.49
03	MIEUIW3-5	33020	16.56	22071	21.94	16654	24.48
04	MIEUIW1-1	27432	16.56	17669	21.94	17201	24.50
05	MIEUIW1-2	30484	16.56	20344	21.94	16322	24.50
06	MIEUIW1-3	25169	16.56	17095	21.94	16027	24.50
07	MIEUIW1-4	29119	16.56	19588	21.94	17443	24.50
08	MIEUIW1-5	25645	16.56	17276	21.94	16536	24.50
09	MIEUIW1-6	29973	16.55	19157	21.94	14917	24.50
10	MIEUIW1-7	21868*	16.56	14150*	21.94	15535	24.50
11	MIEUIW1-7MS	28699	16.56	18670	21.94	15441	24.50
12	MIEUIW1-7MSD	31002	16.56	20039	21.94	13845	24.50
13	EB4	29384	16.56	20168	21.94	13994	24.50
14							
15							
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18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108176

Lab File ID (Standard): YID500B Date Analyzed: 08/01/05

Instrument ID: Y Time Analyzed: 1248

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	19838	24.62				
	UPPER LIMIT	39676	25.12				
	LOWER LIMIT	9919	24.12				
	STLVT SAMPLE NO.						
01	D5LCS	15455	24.62				
02	MIEUIW3-4	12122	24.64				
03	MIEUIW3-5	13988	24.64				
04	MIEUIW1-1	10803	24.64				
05	MIEUIW1-2	12487	24.64				
06	MIEUIW1-3	9342*	24.64				
07	MIEUIW1-4	11213	24.64				
08	MIEUIW1-5	9939	24.64				
09	MIEUIW1-6	10715	24.64				
10	MIEUIW1-7	8368*	24.64				
11	MIEUIW1-7MS	10535	24.64				
12	MIEUIW1-7MSD	11243	24.64				
13	EB4	10387	24.64				
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

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

STL Burlington
Colchester, Vermont

Sample Data Summary Package

SDG: 108177

SEVERN TRENT STL

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

August 18, 2005

Mr. Paul Sklar
URS Corporation
10200 Innovation Drive
Suite 500
Milwaukee, WI 53226

Re: Laboratory Project No. 25000
Case: 25000; SDG: 108177

Dear Mr. Sklar:

Enclosed are the analytical results for samples received by STL Burlington on June 18 and 21, 2005. This report is sequentially numbered starting with page 0001 and ending with page 0486. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 06/18/05 ETR No: 108177		
627495	SVITREUM-W-3-5	04/20/05	Tissue
627496	SVITREUM-W-3-6	04/20/05	Tissue
627497	ANEBULOSUS-W-1-1	06/16/05	Tissue
627498	ANEBULOSIS-W-1-DUP1	06/16/05	Tissue
627499	ANEBULOSIS-W-1-2	06/16/05	Tissue
627500	ANEBULOSIS-W-1-3	06/16/05	Tissue
627501	ANEBULOSIS-W-1-4	06/16/05	Tissue
627502	ANEBULOSIS-W-1-5	06/16/05	Tissue
627503	ANEBULOSIS-W-1-6	06/16/05	Tissue
627504	ANEBULOSIS-W-1-7	06/16/05	Tissue
627505	ANEBULOSIS-W-1-8	06/16/05	Tissue
627506	ANEBULOSIS-W-3-1	06/17/05	Tissue
627507	ANEBULOSIS-W-3-DUP1	06/17/05	Tissue
627508	ANEBULOSIS-W-3-2	06/17/05	Tissue
627509	ANEBULOSIS-W-3-3	06/17/05	Tissue
627510	ANEBULOSIS-W-3-4	06/17/05	Tissue
627511	ANEBULOSIS-W-3-5	06/17/05	Tissue
627511DP	ANEBULOSIS-W-3-5REP	06/17/05	Tissue
627511MS	ANEBULOSIS-W-3-5MS	06/17/05	Tissue
627511MD	ANEBULOSIS-W-3-5MSD	06/17/05	Tissue
627512	EB5		Solid
	Received: 06/21/05 ETR No: 108179		
627515	ANEBULOSIS-W-3-6	06/18/05	Tissue
627516	ANEBULOSIS-W-3-7	06/19/05	Tissue
627517	ANEBULOSIS-W-3-8	06/19/05	Tissue

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The client sample identifications have been truncated on the analytical reports to facilitate use of commercial data processing systems. In this instance, 'ANEBU' was removed from each name. The entire identification listed on this case narrative will appear in the electronic deliverable. To provide consistency for reporting all Tissue samples submitted for this project, the 'NS-TA' prefix was removed from all samples, and does not appear on this case narrative or in the electronic deliverable.

Please note that the results for the samples in this delivery group are reported on a wet weight basis. Two electronic deliverables have been provided as requested; one that matches the hardcopy exactly and a second with results converted to a dry weight basis.

An equipment blank was generated at the time of tissue preparation/homogenization. This equipment blank was carried through the analytical process and the results reported on the same weight/weight basis as the samples. The analysis of the equipment blank was free of contamination.

The analyses of several samples in this delivery group yielded responses slightly below control criteria for the internal standards spiked at the time of extraction, which in this analysis are utilized as surrogates rather than as true internal standards. All sample surrogate recoveries were acceptable.

The original PAH analysis of sample ANEBULOSIS-W-3-4 yielded the presence of target compounds at concentrations above calibration range. This sample was reanalyzed at an appropriate dilution yielding acceptable results. Both sets of data have been presented in this case submittal.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Jim Madison
Project Manager

Enclosure

0001B LAST ALPHA DMM 8/18/05

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: WRS Corp.
Address: 10200 INNOVATION DR.
MILWAUKEE, WI 53226
Contact: Mark SKLAR
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote:

Invoice to:
Company:
Address: SAME
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25L84375
Project Name: ASHLAND / NSA LAKEFRONT SUPERFUND
No/Type of Containers²: P/O

ANALYSIS REQUESTED: SIMPAH, LIPIDS, % SOLIDS

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1450		X	NS-TA-SUITREUM-F-1-1				1	X	X	X	Run a duplicate
	6/16	1455			NS-TA-SUITREUM-F-1-2				1	X	X	X	sample of the
	6/16	1500			NS-TA-SUITREUM-F-1-3				1	X	X	X	homogenized
	6/16	1505			NS-TA-SUITREUM-F-1-4				1	X	X	X	tissue sample
	6/16	1510			NS-TA-SUITREUM-F-1-5				1	X	X	X	at a rate of
	6/16	1515			NS-TA-SUITREUM-F-1-6				1	X	X	X	1 duplicate per
	6/15	2345			NS-TA-SUITREUM-W-1-1				1	X	X	X	every 10 samples
	6/16	1500			NS-TA-SUITREUM-W-1-2				1	X	X	X	
	6/16	1505			NS-TA-SUITREUM-W-1-3				1	X	X	X	
	6/16	1510			NS-TA-SUITREUM-W-1-4				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patrick	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

1-

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25648375
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LEAD	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1510		X	NS-TA-SUITREum-W-1-4				1	X	X	X	Run a MS/MSD
	6/16	1515			NS-TA-SUITREum-W-1-5				1	X	X	X	sample of the
	6/15	2130			NS-TA-SUITREum-W-3-1				1	X	X	X	homogenized
	6/15	2135			NS-TA-SUITREum-W-3-2				1	X	X	X	tissue sample
	4/20	2300			NS-TA-SUITREum-W-3-3				1	X	X	X	at a rate of
	4/20	2305			NS-TA-SUITREum-W-3-4				1	X	X	X	1 MS/MSD per
	4/20	2310			NS-TA-SUITREum-W-3-5				1	X	X	X	every 20 samples
	4/20	2315			NS-TA-SUITREum-W-3-6				1	X	X	X	
	4/20	2240			NS-TA-SUITREum-F-3-1				1	X	X	X	
	4/20	2240			NS-TA-SUITREum-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patmore	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE -
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

2-

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers[2]: 1/0

ANALYSIS REQUESTED: SIMPAH, LTEIAS, 70 SMTAS

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LTEIAS	70 SMTAS	Lab/Sample ID (Lab Use Only)
T	4/20	2230		X	NS-TA-SUITREUM-F-3-3				1	X	X	X	
	4/20	2242			NS-TA-SUITREUM-F-3-4				1	X	X	X	
	4/20	2248			NS-TA-SUITREUM-F-3-5				1	X	X	X	
	4/20	2255			NS-TA-SUITREUM-F-3-6				1	X	X	X	
	6/15	2130			NS-TA-MMACROLEPIDOTUM-W-3-1				1	X	X	X	
	6/16	1200			NS-TA-MMACROLEPIDOTUM-W-3-2				1	X	X	X	
	6/16	1205			NS-TA-MMACROLEPIDOTUM-W-3-3				1	X	X	X	
	6/16	1210			NS-TA-MMACROLEPIDOTUM-W-3-4				1	X	X	X	
	6/16	1215			NS-TA-MMACROLEPIDOTUM-W-3-5				1	X	X	X	
	6/16	1220			NS-TA-MMACROLEPIDOTUM-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patnaud	6.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O [2]Plastic or other Vacuum Steel Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Sampler's Name: Brian Beaver
Sampler's Signature: [signature]

Proj. No.: 256488375
Project Name: Ashland/NSA ~~Superfund~~ Lake Street Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED: SIM PAH; LIPIDS; % Solids

Lab Use Only
Due Date:
Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5
Custody Seal N / Y
Intact N / Y
Screened For Radioactivity ☐

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% Solids	Lab/Sample ID (Lab Use Only)
T	6/16	1225		X	NS-TA-MMACROLEPIDOTUM-W-3-7				1	X	X	X	
	6/17	0945		X	NS-TA-MMACROLEPIDOTUM-W-3-8				1	X	X	X	
	6/15	2200			NS-TA-MMACROLEPIDOTUM-W-1-1				1	X	X	X	
	6/15	2205			NS-TA-MMACROLEPIDOTUM-W-1-2				1	X	X	X	
	6/15	2210			NS-TA-MMACROLEPIDOTUM-W-1-3				1	X	X	X	
	6/16	1420			NS-TA-MMACROLEPIDOTUM-W-1-4				1	X	X	X	
	6/16	1425			NS-TA-MMACROLEPIDOTUM-W-1-5				1	X	X	X	
	6/16	1430			NS-TA-MMACROLEPIDOTUM-W-1-6				1	X	X	X	
	~~6/17~~	~~1800~~			~~NS-TA-MMACROLEPIDOTUM-W-1-7~~		~~BB~~		0				
	~~6/17~~	~~1805~~			~~NS-TA-MMACROLEPIDOTUM-W-1-8~~		~~BB~~		0				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	[signature]	6.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

4-1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688325
Project Name: Ashland / NSP Lakefront Superfund
No/Type of Containers²: P/O

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

ANALYSIS REQUESTED: SIM PAH; LIPIDS; % SOLIDS

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	0945		X	NS-TA-MMACROLEPIDOTUM-F-1-1				1	X	X	X	
	6/15	2250			NS-TA-MMACROLEPIDOTUM-F-1-2				1	X	X	X	
	6/15	2300			NS-TA-MMACROLEPIDOTUM-F-1-3				1	X	X	X	
	6/15	2305			NS-TA-MMACROLEPIDOTUM-F-1-4				1	X	X	X	
	6/15	2310			NS-TA-MMACROLEPIDOTUM-F-1-5				1	X	X	X	
	6/15	2315			NS-TA-MMACROLEPIDOTUM-F-1-6				1	X	X	X	
	6/15	2320			NS-TA-MMACROLEPIDOTUM-F-1-7				1	X	X	X	
	6/15	2325			NS-TA-MMACROLEPIDOTUM-F-1-8				1	X	X	X	
	6/15	1325			NS-TA-MMACROLEPIDOTUM-F-3-1				1	X	X	X	
	6/15	1330			NS-TA-MMACROLEPIDOTUM-F-3-2				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Angela Patrick	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

5-1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: [signature]

Proj. No.: 25688375
Project Name: NSP / Ashland Lakefront Superfund
No/Type of Containers²: P/O

ANALYSIS REQUESTED

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	CIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	1335		X	NS-TA-MMACROLEPIDOTUM-F-3-3				1	X	X	X	
	6/15	1340			NS-TA-MMACROLEPIDOTUM-F-3-4				1	X	X	X	
	6/15	1345			NS-TA-MMACROLEPIDOTUM-F-3-5				1	X	X	X	
	6/15	1350			NS-TA-MMACROLEPIDOTUM-F-3-6				1	X	X	X	
	6/16	1045			NS-TA-MMACROLEPIDOTUM-F-3-7				1	X	X	X	
	6/16	1050			NS-TA-MMACROLEPIDOTUM-F-3-8				1	X	X	X	
	6/15	0800			NS-TA-ARUPESTRIS-W-1-1				1	X	X	X	
	6/16	1700			NS-TA-ARUPESTRIS-W-1-2				1	X	X	X	
	6/16	1705			NS-TA-ARUPESTRIS-W-1-3				1	X	X	X	
	6/16	1715			NS-TA-ARUPESTRIS-W-1-4				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patnoal	~~06-30-05~~ 06-18-05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

6-11

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:	Invoice to:
Company:	Company:
Address:	Address:
Contact: SAME	Contact: SAME
Phone:	Phone:
Fax:	Fax:
Contract/ Quote:	

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: [signature]

Proj. No.: 25684375
Project Name: NSP/~~Lake Front~~ Ashland Lake Front Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1720			NS-TA-ARUPESTRIS-W-1-5				1	X	X	X	
	6/16	1725			NS-TA-ARUPESTRIS-W-1-6				1	X	X	X	
	6/16	1730			NS-TA-ARUPESTRIS-W-1-7				1	X	X	X	
	6/16	1735			NS-TA-ARUPESTRIS-W-1-8				1	X	X	X	
	6/15	0955			NS-TA-ARUPESTRIS-W-3-1				1	X	X	X	
	6/16	1030			NS-TA-ARUPESTRIS-W-3-2				1	X	X	X	
	6/16	1035			NS-TA-ARUPESTRIS-W-3-3				1	X	X	X	
	6/16	1040			NS-TA-ARUPESTRIS-W-3-4				1	X	X	X	
	6/16	1045			NS-TA-ARUPESTRIS-W-3-5				1	X	X	X	
	6/16	1055			NS-TA-ARUPESTRIS-W-3-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/17/05	1630	Angela Patmon	6.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY - ORIGINAL ON FILE
SDG # 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

7-10

STL8234-200 (12/02)

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:

Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:

Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Benner
Sampler's Signature: Brian Benner

Proj. No.: 688375
Project Name: NSP / Ashland Lakefront Superfund
No/Type of Containers: P/O

ANALYSIS REQUESTED: SIMPAH, LIPIDS, % SOLIDS

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIMPAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
	6/16	1100		X	NS-TA-ARUPESTRIS-W-3-7				1	X	X	X	
	6/16	1105			NS-TA-ARUPESTRIS-W-3-8				1	X	X	X	
	6/15	1300			NS-TA-MADOWMIEWI-W-3-1				1	X	X	X	
	6/15	1305			NS-TA-MADOWMIEWI-W-3-2				1	X	X	X	
	6/15	1310			NS-TA-MADOWMIEWI-W-3-3				1	X	X	X	
	6/16	1015			NS-TA-MADOWMIEWI-W-3-4				1	X	X	X	
	6/16	1020			NS-TA-MADOWMIEWI-W-3-5				1	X	X	X	
	6/15	1600			NS-TA-MADOWMIEWI-W-1-1				1	X	X	X	
	6/15	1605			NS-TA-MADOWMIEWI-W-1-2				1	X	X	X	
	6/15	1610			NS-TA-MADOWMIEWI-W-1-3				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Benner	6/17/05	1630	Angela Patnoe	06.18.05	1020
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG #: 108055 ETR #: 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

8-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP / Ashland ~~Superfund~~ Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED: SEMVOAH, LIPIDS, % SOLIDS

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SEMVOAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/15	1615		X	NS-TA-MADOLOMIEWI-W-1-4				1	Y	Y	Y	
	6/15	1620			NS-TA-MADOLOMIEWI-W-1-5				1	Y	Y	Y	
	6/15	1625			NS-TA-MADOLOMIEWI-W-1-6				1	Y	Y	Y	
	6/15	1630			NS-TA-MADOLOMIEWI-W-1-7				1	Y	Y	Y	
	6/16	1740			NS-TA-ANEBULOSUS-W-1-1				1	Y	Y	Y	
	6/16	1745			NS-TA-ANEBULOSUS-W-1-2				1	Y	Y	Y	
	6/16	1750			NS-TA-ANEBULOSUS-W-1-3				1	Y	Y	Y	
	6/16	1755			NS-TA-ANEBULOSUS-W-1-4				1	Y	Y	Y	
	6/16	1800			NS-TA-ANEBULOSUS-W-1-5				1	Y	Y	Y	
	6/16	1805			NS-TA-ANEBULOSUS-W-1-6				1	Y	Y	Y	

Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Brian Berner	6/17/05	1630	Angela Patnode	06.18.05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks
COPY · ORIGINAL ON FILE
SDG #. 108055 ETR # 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

9-10

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company:
Address:
Contact: SAME
Phone:
Fax:
Contract/ Quote:

Invoice to:
Company:
Address:
Contact: SAME
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Brian Berner
Sampler's Signature: Brian Berner

Proj. No.: 25688375
Project Name: NSP/Ashland Lakefront Superfund
No/Type of Containers[2]: P/O

ANALYSIS REQUESTED: SIM PAH, LIPIDS, % SOLIDS

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SIM PAH	LIPIDS	% SOLIDS	Lab/Sample ID (Lab Use Only)
T	6/16	1840		X	NS-TA-ANEBULOSUS-W-1-7				1	X	X	X	
↓	6/16	1815		↓	NS-TA-ANEBULOSUS-W-1-8				1	X	X	X	
	6/17	1030			NS-TA-~~[illegible]~~ ANEBULOSUS-W-3-1				1	X	X	X	
	6/17	1035			NS-TA-ANEBULOSUS-W-3-2				1	X	X	X	
	6/17	1040			NS-TA-ANEBULOSUS-W-3-3				1	X	X	X	
	6/17	1045			NS-TA-ANEBULOSUS-W-3-4				1	X	X	X	
	6/17	1050			NS-TA-ANEBULOSUS-W-3-5				1	X	X	X	
↓	6/17	1100		↓	NS-TA-SUITREUM-W-1-6				1	X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Berner	6/17/05	1630	Lynda Patrow	6/18/05	1030
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks: JWM 7/27/05 Copy - original on file with SDG 108055 ETR 108055

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum Seal Bag

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

1 of 1

SEVERN TRENT **STL**

SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: URS Corporation
Address: 10200 Innovation Drive Suite 500, Milwaukee WI 53226
Contact: Brian Barner
Phone: 414-831-4100
Fax: 414-831-4101
Contract/ Quote: Quote 2593

Invoice to:
Company: URS CORPORATION
Address: 10200 INNOVATION DR; SUITE 500
Contact: PAUL SELLNER
Phone: 414 831 4100
Fax: 414 831 4101

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Richard M. Wilderman, Josh Collins

Sampler's Signature:

Proj. No.:

Project Name: Ashland/NSP Lakefront Site

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	SEM/PAH	Lipids	% Solids	Lab/Sample ID (Lab Use Only)
TA	6/18	1500			NS-TA-M. macrolepidotum W-3-7					X	X	X	
TA	6/18	1505			NS-TA-M. macrolepidotum W-3-8					X	X	X	
TA	6/18	1520			NS-TA-A. nebulosis-W-3-6					X	X	X	
TA	6/19	1700			NS-TA-A. nebulosis-W-3-7					X	X	X	
TA	6/19	1708			NS-TA-A. nebulosis-W-3-8					X	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-20-04	0800		6.21.05	0940
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks: ORIGINAL ON FILE
SDG #. 108064 ETR # 108178

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Vacuum bags

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

STL8234-200 (12/02)

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSUS-W-1-1

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108177

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627497

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 24.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		24.2	

Printed on: 08/01/05 04:19 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-DUP1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627498

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		23.3	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627499

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 21.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		21.6	

Printed on: 08/01/05 04:19 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-3

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627500

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 25.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		25.1	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627501

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 22.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		22.7	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-5

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108177

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627502

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 22.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		22.4	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-6

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627503

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		23.6	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-7

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627504

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 22.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		22.4	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-8

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627505

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 22.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		22.4	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-3-1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627506

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 22.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		22.8	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-3-DUP1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627507

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		23.7	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-3-2

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627508

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 23.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		23.6	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-3-3

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108177

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627509

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids: 26.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		26.8	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-3-4

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627510

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 21.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		21.9	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-3-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627511

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		22.1	

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WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
ANEBULOSIS-W-3-5REP

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627511DP

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids: 24.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
IN623	Solids, Percent	07/26/05	N/A	%	22.1		24.1		9

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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WET CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-3-6

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627515

Matrix: TISSUE
Client: URSCO9
Date Received: 06/21/05

% Solids: 22.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		22.1	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-3-7

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108177

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627516

Matrix: TISSUE

Client: URSCO9

Date Received: 06/21/05

% Solids: 20.9

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		20.9	

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WET CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-3-8

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108177

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627517

Matrix: TISSUE

Client: URSCO9

Date Received: 06/21/05

% Solids: 21.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	07/26/05	N/A	%	1.0		21.7	

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SEVERN TRENT STL

Geotechnical Analysis
Sample Data Summary Package

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSUS-W-1-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627497

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	3.0	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-DUP1

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108177

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627498

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	2.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627499

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	0.9	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-3

Lab Name: STL BURLINGTON | **Contract:** 25688375 | **SDG No.:** 108177

Lab Code: STLVT | **Case No.:** 25000 | **Lab Sample ID:** 627500

Matrix: TISSUE | **Client:** URSCO9 | **Date Received:** 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	1.2	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-4

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627501

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	2.0	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-W-1-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627502

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	2.6	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-6

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627503

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	1.6	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-7

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627504

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	1.4	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-1-8

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627505

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	1.6	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-3-1

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627506

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	3.0	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-3-DUP1

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627507

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	3.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-3-2

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627508

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	2.2	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-3-3

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627509

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	2.1	

Printed on: 07/27/05 11:32 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-3-4

Lab Name: STL BURLINGTON

Contract: 25688375

SDG No.: 108177

Lab Code: STLVT

Case No.: 25000

Lab Sample ID: 627510

Matrix: TISSUE

Client: URSCO9

Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	2.4	

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
ANEBULOSIS-3-5

Lab Name: STL BURLINGTON
Contract: 25688375
SDG No.: 108177

Lab Code: STLVT
Case No.: 25000
Lab Sample ID: 627511

Matrix: TISSUE
Client: URSCO9
Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	2.1	

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GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

ANEBULOSIS-3-5REP

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627511DP

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD*
LIPIDS	%Lipids Determination	07/13/05		%	2.1		3.7		55

** Control Limit for RPD is +/- 20%, unless otherwise specified.*

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

EB5

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627512

Matrix: SOLID | Client: URSCO9 | Date Received: 06/18/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	0.1	U

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GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-3-6

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627515

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/21/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	1.4	

Printed on: 07/27/05 11:32 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-3-7

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627516

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/21/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	1.4	

Printed on: 07/27/05 11:32 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

ANEBULOSIS-W-3-8

Lab Name: STL BURLINGTON | Contract: 25688375 | SDG No.: 108177

Lab Code: STLVT | Case No.: 25000 | Lab Sample ID: 627517

Matrix: TISSUE | Client: URSCO9 | Date Received: 06/21/05

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
LIPIDS	%Lipids Determination	07/13/05		%	1	0.1	1.1	

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Percent Lipids Calculations

Date: 7/13/2005 **Analyst:** mlt

Time: 0045 **ETR(s):** 108177 108179

Client: URSCO9

Sample ID	Sample Weight (g)	Dish (g)	Dish/Residue (g)	Extract Final Volume (mLs)	Aliquot Used in Determination (mLs)	% Lipids
SBLKS4	40.00	0.8768	0.8768	10	1	< 0.1
LCSS4	40.00	0.8716	0.8716	10	1	< 0.1
627497	39.99	0.8965	1.0162	10	1	3.0
627498	39.97	0.8925	0.9749	10	1	2.1
627499	40.05	0.9974	1.0345	10	1	0.9
627500	40.05	1.0051	1.0521	10	1	1.2
627501	40.01	0.9923	1.0717	10	1	2.0
627502	39.98	0.9799	1.0853	10	1	2.6
627503	39.97	1.0022	1.0679	10	1	1.6
627504	40.05	1.0125	1.0676	10	1	1.4
627505	39.95	0.9959	1.0593	10	1	1.6
627506	39.99	0.8822	1.0028	10	1	3.0
627507	40.00	0.8780	1.0012	10	1	3.1
627508	40.05	0.8885	0.9775	10	1	2.2
627509	40.04	0.8766	0.9598	10	1	2.1
627510	40.05	0.8977	0.9919	10	1	2.4
627511	40.04	0.8967	0.9797	10	1	2.1
627511DP	40.05	0.9027	1.0492	10	1	3.7
627512	39.99	0.8992	0.8994	10	1	< 0.1
627515	39.95	0.8985	0.9551	10	1	1.4
627516	39.97	0.8784	0.9341	10	1	1.4
627517	39.97	0.8758	0.9186	10	1	1.1
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SAMPLE DATA SUMMARY PACKAGE

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

EB5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627512

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627512

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSIS-W-3-8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627517

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627517

Level: (low/med) LOW Date Received: 06/21/05

% Moisture: not dec. _____ Date Analyzed: 08/01/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.7	
91-57-6	2-Methylnaphthalene	4.8	
90-12-0	1-Methylnaphthalene	13	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	5.5	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	9.9	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	4.0	
85-01-8	Phenanthrene	6.8	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.2	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627499

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627499

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	4.1	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.1	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627500

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627500

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.0	
91-57-6	2-Methylnaphthalene	2.5	
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	7.3	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	6.0	
129-00-0	Pyrene	2.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627501

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627501

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.2	
91-57-6	2-Methylnaphthalene	3.1	
90-12-0	1-Methylnaphthalene	2.3	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	5.8	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.7	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627502

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627502

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.3	
91-57-6	2-Methylnaphthalene	3.3	
90-12-0	1-Methylnaphthalene	2.7	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.1	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	4.8	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.0	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627503

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627503

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.8	
91-57-6	2-Methylnaphthalene	3.4	
90-12-0	1-Methylnaphthalene	2.6	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.3	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	
2245-38-7	2,3,5 Trimethylnaphthalene	2.1	
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	6.3	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	4.5	
129-00-0	Pyrene	2.0	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627504

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627504

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	3.2	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	5.2	
129-00-0	Pyrene	2.6	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-8

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627505

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627505

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.6	
91-57-6	2-Methylnaphthalene	3.3	
90-12-0	1-Methylnaphthalene	2.6	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.5	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	J
2245-38-7	2,3,5 Trimethylnaphthalene	3.0	
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	5.7	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.6	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW1-DUP1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627498

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627498

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.1	
91-57-6	2-Methylnaphthalene	3.6	
90-12-0	1-Methylnaphthalene	2.8	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.6	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.2	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.6	
85-01-8	Phenanthrene	7.4	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	6.6	
129-00-0	Pyrene	3.1	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627506

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627506

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	35	
91-57-6	2-Methylnaphthalene	16	
90-12-0	1-Methylnaphthalene	51	
92-52-4	Biphenyl	4.2	
581-42-0	2,6 Dimethylnaphthalene	17	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	43	
2245-38-7	2,3,5 Trimethylnaphthalene	3.4	
86-73-7	Fluorene	14	
85-01-8	Phenanthrene	21	
120-12-7	Anthracene	4.6	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	7.8	
129-00-0	Pyrene	5.8	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-2

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627508

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627508

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	46	
91-57-6	2-Methylnaphthalene	21	
90-12-0	1-Methylnaphthalene	81	
92-52-4	Biphenyl	6.4	
581-42-0	2,6 Dimethylnaphthalene	30	
208-96-8	Acenaphthylene	4.0	
83-32-9	Acenaphthene	77	
2245-38-7	2,3,5 Trimethylnaphthalene	6.9	
86-73-7	Fluorene	25	
85-01-8	Phenanthrene	43	
120-12-7	Anthracene	9.9	
832-69-9	1-Methylphenanthrene	3.4	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.7	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-3

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627509

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627509

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.4	
91-57-6	2-Methylnaphthalene	6.9	
90-12-0	1-Methylnaphthalene	15	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	6.3	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	14	
2245-38-7	2,3,5 Trimethylnaphthalene	2.8	
86-73-7	Fluorene	4.5	
85-01-8	Phenanthrene	7.5	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.5	
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627510

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627510

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	53	
91-57-6	2-Methylnaphthalene	33	
90-12-0	1-Methylnaphthalene	100	E
92-52-4	Biphenyl	7.7	
581-42-0	2,6 Dimethylnaphthalene	43	
208-96-8	Acenaphthylene	13	
83-32-9	Acenaphthene	100	E
2245-38-7	2,3,5 Trimethylnaphthalene	13	
86-73-7	Fluorene	29	
132-65-0	Dibenzothiophene	6.2	
85-01-8	Phenanthrene	41	
120-12-7	Anthracene	13	
832-69-9	1-Methylphenanthrene	4.1	
206-44-0	Fluoranthene	9.8	
129-00-0	Pyrene	9.6	
56-55-3	Benzo(a)anthracene	2.2	
218-01-9	Chrysene	3.3	
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.2	
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	4.3	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-4DL

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627510D1

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627510D

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/04/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.4

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	54	D
91-57-6	2-Methylnaphthalene	33	D
90-12-0	1-Methylnaphthalene	100	D
92-52-4	Biphenyl	7.5	D
581-42-0	2,6 Dimethylnaphthalene	42	D
208-96-8	Acenaphthylene	11	D
83-32-9	Acenaphthene	100	D
2245-38-7	2,3,5 Trimethylnaphthalene	12	D
86-73-7	Fluorene	30	D
85-01-8	Phenanthrene	42	D
120-12-7	Anthracene	13	D
832-69-9	1-Methylphenanthrene	3.0	D
206-44-0	Fluoranthene	9.8	D
129-00-0	Pyrene	9.7	D
56-55-3	Benzo(a)anthracene	2.9	U
218-01-9	Chrysene	3.3	D
205-99-2	Benzo(b)fluoranthene	2.9	U
207-08-9	Benzo(k)fluoranthene	2.9	U
192-97-2	Benzo(e)pyrene	2.9	U
50-32-8	Benzo(a)pyrene	2.3	DJ
198-55-0	Perylene	2.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.9	U
53-70-3	Dibenz(a,h)anthracene	2.9	U
191-24-2	Benzo(g,h,i)perylene	5.0	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-5

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627511

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627511

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.0	
91-57-6	2-Methylnaphthalene	4.3	
90-12-0	1-Methylnaphthalene	7.6	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	3.1	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	6.4	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	
86-73-7	Fluorene	2.4	
85-01-8	Phenanthrene	5.4	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	3.4	
129-00-0	Pyrene	2.0	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-6

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627515

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627515

Level: (low/med) LOW Date Received: 06/21/05

% Moisture: not dec. _____ Date Analyzed: 08/01/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	5.8	
90-12-0	1-Methylnaphthalene	12	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	6.9	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	13	
2245-38-7	2,3,5 Trimethylnaphthalene	2.8	
86-73-7	Fluorene	6.0	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	2.1	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	7.3	
129-00-0	Pyrene	33	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.9	
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-7

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627516

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627516

Level: (low/med) LOW Date Received: 06/21/05

% Moisture: not dec. _____ Date Analyzed: 08/01/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	17	
91-57-6	2-Methylnaphthalene	8.0	
90-12-0	1-Methylnaphthalene	26	
92-52-4	Biphenyl	2.7	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	24	
2245-38-7	2,3,5 Trimethylnaphthalene	3.4	
86-73-7	Fluorene	12	
85-01-8	Phenanthrene	36	
120-12-7	Anthracene	4.7	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	17	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-DUP1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627507

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627507

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	34	
91-57-6	2-Methylnaphthalene	17	
90-12-0	1-Methylnaphthalene	58	
92-52-4	Biphenyl	5.1	
581-42-0	2,6 Dimethylnaphthalene	13	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	40	
2245-38-7	2,3,5 Trimethylnaphthalene	3.6	
86-73-7	Fluorene	17	
85-01-8	Phenanthrene	22	
120-12-7	Anthracene	4.8	
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	8.5	
129-00-0	Pyrene	6.0	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSUSW1-1

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627497

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627497

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	3.2	
90-12-0	1-Methylnaphthalene	2.4	
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.2	
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	3.0	
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.3	
85-01-8	Phenanthrene	7.3	
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	6.5	
129-00-0	Pyrene	3.3	
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

SBLKS4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: SBLKS4

Sample wt/vol: 40.0 (g/mL) G Lab File ID: B0712S4

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/01/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U
90-12-0	1-Methylnaphthalene	2.0	U
92-52-4	Biphenyl	2.0	U
581-42-0	2,6 Dimethylnaphthalene	2.0	U
208-96-8	Acenaphthylene	2.0	U
83-32-9	Acenaphthene	2.0	U
2245-38-7	2,3,5 Trimethylnaphthalene	2.0	U
86-73-7	Fluorene	2.0	U
85-01-8	Phenanthrene	2.0	U
120-12-7	Anthracene	2.0	U
832-69-9	1-Methylphenanthrene	2.0	U
206-44-0	Fluoranthene	2.0	U
129-00-0	Pyrene	2.0	U
56-55-3	Benzo(a)anthracene	2.0	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	2.0	U
207-08-9	Benzo(k)fluoranthene	2.0	U
192-97-2	Benzo(e)pyrene	2.0	U
50-32-8	Benzo(a)pyrene	2.0	U
198-55-0	Perylene	2.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	U
53-70-3	Dibenz(a,h)anthracene	2.0	U
191-24-2	Benzo(g,h,i)perylene	2.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-5MS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627511MS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627511M

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	
91-57-6	2-Methylnaphthalene	14	
90-12-0	1-Methylnaphthalene	18	
92-52-4	Biphenyl	11	
581-42-0	2,6 Dimethylnaphthalene	7.9	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	13	
2245-38-7	2,3,5 Trimethylnaphthalene	12	
86-73-7	Fluorene	15	
85-01-8	Phenanthrene	13	
120-12-7	Anthracene	9.3	
832-69-9	1-Methylphenanthrene	9.1	
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	8.8	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	8.0	
192-97-2	Benzo(e)pyrene	10	
50-32-8	Benzo(a)pyrene	9.3	
198-55-0	Perylene	8.9	
193-39-5	Indeno(1,2,3-cd)pyrene	8.2	
53-70-3	Dibenz(a,h)anthracene	9.0	
191-24-2	Benzo(g,h,i)perylene	7.2	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

URSCO9 SAMPLE NO.

LOSISW3-5MSD

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: 627511MD

Sample wt/vol: 40.0 (g/mL) G Lab File ID: 627511S

Level: (low/med) LOW Date Received: 06/18/05

% Moisture: not dec. _____ Date Analyzed: 08/03/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	15	
91-57-6	2-Methylnaphthalene	14	
90-12-0	1-Methylnaphthalene	16	
92-52-4	Biphenyl	9.3	
581-42-0	2,6 Dimethylnaphthalene	11	
208-96-8	Acenaphthylene	9.2	
83-32-9	Acenaphthene	14	
2245-38-7	2,3,5 Trimethylnaphthalene	10	
86-73-7	Fluorene	11	
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	9.3	
832-69-9	1-Methylphenanthrene	9.3	
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	8.9	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	8.9	
192-97-2	Benzo(e)pyrene	9.5	
50-32-8	Benzo(a)pyrene	9.1	
198-55-0	Perylene	9.1	
193-39-5	Indeno(1,2,3-cd)pyrene	8.4	
53-70-3	Dibenz(a,h)anthracene	9.0	
191-24-2	Benzo(g,h,i)perylene	6.8	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

S4LCS

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix: (soil/water) SOIL Lab Sample ID: S4LCS

Sample wt/vol: 40.0 (g/mL) G Lab File ID: Q0712S4

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/01/05

GC Column: RTX-5 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.3	
91-57-6	2-Methylnaphthalene	9.8	
90-12-0	1-Methylnaphthalene	9.4	
92-52-4	Biphenyl	9.1	
581-42-0	2,6 Dimethylnaphthalene	9.0	
208-96-8	Acenaphthylene	8.7	
83-32-9	Acenaphthene	8.8	
2245-38-7	2,3,5 Trimethylnaphthalene	9.0	
86-73-7	Fluorene	9.1	
85-01-8	Phenanthrene	9.8	
120-12-7	Anthracene	8.5	
832-69-9	1-Methylphenanthrene	8.5	
206-44-0	Fluoranthene	9.1	
129-00-0	Pyrene	9.4	
56-55-3	Benzo(a)anthracene	9.5	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	9.6	
207-08-9	Benzo(k)fluoranthene	8.2	
192-97-2	Benzo(e)pyrene	9.1	
50-32-8	Benzo(a)pyrene	8.3	
198-55-0	Perylene	8.2	
193-39-5	Indeno(1,2,3-cd)pyrene	8.5	
53-70-3	Dibenz(a,h)anthracene	9.2	
191-24-2	Benzo(g,h,i)perylene	7.6	

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Level:(low/med) LOW

	STLVT SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	SMC4 #	SMC5 #	TOT OUT
01	S4LCS	79	83	78	82	80	0
02	SBLKS4	9*	24	64	90	90	1
03	LOSISW3-6	75	74	69	77	75	0
04	LOSISW3-7	57	69	67	74	74	0
05	LOSIS-W-3-8	54	62	59	67	60	0
06	EB5	63	71	62	76	72	0
07	LOSUSW1-1	70	80	73	64	64	0
08	LOSISW1-DUP1	48	58	55	50	43	0
09	LOSISW1-2	53	62	60	54	43	0
10	LOSISW1-3	52	61	55	50	45	0
11	LOSISW1-4	53	81	81	66	44	0
12	LOSISW1-5	73	83	78	66	58	0
13	LOSISW1-6	44	53	50	43	38	0
14	LOSISW1-7	64	78	72	61	61	0
15	LOSISW1-8	67	81	76	65	61	0
16	LOSISW3-1	61	71	68	58	50	0
17	LOSISW3-DUP1	31	58	65	58	42	0
18	LOSISW3-2	60	73	66	58	38	0
19	LOSISW3-3	63	75	71	63	51	0
20	LOSISW3-4	70	87	79	71	76	0
21	LOSISW3-5	30	37	37	32	36	0
22	LOSISW3-5MS	25	54	66	60	69	0
23	LOSISW3-5MSD	88	100	90	88	77	0
24	LOSISW3-4DL	63	80	74	68	72	0
25							
26							
27							
28							
29							
30							

		QC LIMITS
SMC1	= Naphthalene-d8 (SS)	(20-130)
SMC2	= Acenaphthene-d10 (SS)	(20-130)
SMC3	= Phenanthrene-d10 (SS)	(20-130)
SMC4	= Chrysene-d12 (SS)	(20-130)
SMC5	= Perylene-d12 (SS)	(20-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix Spike - URSCO9 Sample No.: LOSISW3-5 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	10	6.0	12	60	60-140
2-Methylnaphthalene	10	4.3	14	97	60-140
1-Methylnaphthalene	10	7.6	18	104	60-140
Biphenyl	10	0.0	11	110	60-140
2,6 Dimethylnaphthalene	10	3.1	7.9	48*	60-140
Acenaphthylene	10	0.0	11	110	60-140
Acenaphthene	10	6.4	13	66	60-140
2,3,5 Trimethylnaphthal	10	2.0	12	100	60-140
Fluorene	10	2.4	15	126	60-140
Phenanthrene	10	5.4	13	76	60-140
Anthracene	10	0.0	9.3	93	60-140
1-Methylphenanthrene	10	0.0	9.1	91	60-140
Fluoranthene	10	3.4	12	86	60-140
Pyrene	10	2.0	10	80	60-140
Benzo(a)anthracene	10	0.0	10	100	60-140
Chrysene	10	0.0	8.8	88	60-140
Benzo(b)fluoranthene	10	0.0	11	110	60-140
Benzo(k)fluoranthene	10	0.0	8.0	80	60-140
Benzo(e)pyrene	10	0.0	10	100	60-140
Benzo(a)pyrene	10	0.0	9.3	93	60-140
Perylene	10	0.0	8.9	89	60-140
Indeno(1,2,3-cd)pyrene	10	0.0	8.2	82	60-140
Dibenz(a,h)anthracene	10	0.0	9.0	90	60-140
Benzo(g,h,i)perylene	10	0.0	7.2	72	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix Spike - URSCO9 Sample No.: LOSISW3-5 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	15	90	40	40	60-140
2-Methylnaphthalene	10	14	97	0	40	60-140
1-Methylnaphthalene	10	16	84	21	40	60-140
Biphenyl	10	9.3	93	17	40	60-140
2,6 Dimethylnaphthalene	10	11	79	49*	40	60-140
Acenaphthylene	10	9.2	92	18	40	60-140
Acenaphthene	10	14	76	14	40	60-140
2,3,5 Trimethylnaphthal	10	10	80	22	40	60-140
Fluorene	10	11	86	38	40	60-140
Phenanthrene	10	14	86	12	40	60-140
Anthracene	10	9.3	93	0	40	60-140
1-Methylphenanthrene	10	9.3	93	2	40	60-140
Fluoranthene	10	12	86	0	40	60-140
Pyrene	10	10	80	0	40	60-140
Benzo(a)anthracene	10	10	100	0	40	60-140
Chrysene	10	8.9	89	1	40	60-140
Benzo(b)fluoranthene	10	11	110	0	40	60-140
Benzo(k)fluoranthene	10	8.9	89	11	40	60-140
Benzo(e)pyrene	10	9.5	95	5	40	60-140
Benzo(a)pyrene	10	9.1	91	2	40	60-140
Perylene	10	9.1	91	2	40	60-140
Indeno(1,2,3-cd)pyrene	10	8.4	84	2	40	60-140
Dibenz(a,h)anthracene	10	9.0	90	0	40	60-140
Benzo(g,h,i)perylene	10	6.8	68	6	40	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 24 outside limits
Spike Recovery: 1 out of 48 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Matrix Spike - STLVT Sample No.: S4LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	10		9.3	93	60-140
2-Methylnaphthalene	10		9.8	98	60-140
1-Methylnaphthalene	10		9.4	94	60-140
Biphenyl	10		9.1	91	60-140
2,6 Dimethylnaphthalene	10		9.0	90	60-140
Acenaphthylene	10		8.7	87	60-140
Acenaphthene	10		8.8	88	60-140
2,3,5 Trimethylnaphthal	10		9.0	90	60-140
Fluorene	10		9.1	91	60-140
Phenanthrene	10		9.8	98	60-140
Anthracene	10		8.5	85	60-140
1-Methylphenanthrene	10		8.5	85	60-140
Fluoranthene	10		9.1	91	60-140
Pyrene	10		9.4	94	60-140
Benzo(a)anthracene	10		9.5	95	60-140
Chrysene	10		11	110	60-140
Benzo(b)fluoranthene	10		9.6	96	60-140
Benzo(k)fluoranthene	10		8.2	82	60-140
Benzo(e)pyrene	10		9.1	91	60-140
Benzo(a)pyrene	10		8.3	83	60-140
Perylene	10		8.2	82	60-140
Indeno(1,2,3-cd)pyrene	10		8.5	85	60-140
Dibenz(a,h)anthracene	10		9.2	92	60-140
Benzo(g,h,i)perylene	10		7.6	76	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 24 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

SBLKS4

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID: B0712S4 Lab Sample ID: SBLKS4

Date Analyzed: 08/01/05 Time Analyzed: 2204

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	S4LCS	S4LCS	Q0712S4	2128
02	LOSISW3-6	627515	627515	2239
03	LOSISW3-7	627516	627516	2315
04	LOSIS-W-3-8	627517	627517	2350
05	EB5	627512	627512	0822
06	LOSUSW1-1	627497	627497	0857
07	LOSISW1-DUP1	627498	627498	0933
08	LOSISW1-2	627499	627499	1008
09	LOSISW1-3	627500	627500	1044
10	LOSISW1-4	627501	627501	1120
11	LOSISW1-5	627502	627502	1155
12	LOSISW1-6	627503	627503	1231
13	LOSISW1-7	627504	627504	1307
14	LOSISW1-8	627505	627505	1343
15	LOSISW3-1	627506	627506	1419
16	LOSISW3-DUP1	627507	627507	1455
17	LOSISW3-2	627508	627508	1531
18	LOSISW3-3	627509	627509	1607
19	LOSISW3-4	627510	627510	1642
20	LOSISW3-5	627511	627511	1718
21	LOSISW3-5MS	627511MS	627511M	1754
22	LOSISW3-5MSD	627511MD	627511S	1829
23	LOSISW3-4DL	627510D1	627510D	1145
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID: YID01PS BFB Injection Date: 07/28/05

Instrument ID: Y BFB Injection Time: 1112

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	63.3
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	45.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.51
441	Present, but less than mass 443	11.4
442	Greater than 40.0% of mass 198	77.8
443	17.0 - 23.0% of mass 442	15.7 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YID500	07/28/05	1246
02	SSTD040	SSTD040	YID040	07/28/05	1322
03	SSTD200	SSTD200	YID200	07/28/05	1358
04	SSTD2000	SSTD2000	YID2000	07/28/05	1433
05	SSTD1000	SSTD1000	YID1000	07/28/05	1509
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID: YID07PS BFB Injection Date: 08/01/05

Instrument ID: Y BFB Injection Time: 1205

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	62.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.7
365	Greater than 1.0% of mass 198	3.11
441	Present, but less than mass 443	12.9
442	Greater than 40.0% of mass 198	82.4
443	17.0 - 23.0% of mass 442	16.4 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YID500B	08/01/05	1248
02	S4LCS	S4LCS	Q0712S4	08/01/05	2128
03	SBLKS4	SBLKS4	B0712S4	08/01/05	2204
04	LOSISW3-6	627515	627515	08/01/05	2239
05	LOSISW3-7	627516	627516	08/01/05	2315
06	LOSIS-W-3-8	627517	627517	08/01/05	2350
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID: YID15PS BFB Injection Date: 08/02/05

Instrument ID: Y BFB Injection Time: 1252

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.3
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	67.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 30.0% of mass 198	22.8
365	Greater than 1.0% of mass 198	3.14
441	Present, but less than mass 443	12.0
442	Greater than 40.0% of mass 198	84.2
443	17.0 - 23.0% of mass 442	15.4 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YIE500	08/02/05	1431
02	SSTD040	SSTD040	YIE040	08/02/05	1535
03	SSTD200	SSTD200	YIE200	08/02/05	1632
04	SSTD2000	SSTD2000	YIE2000	08/02/05	1709
05	SSTD1000	SSTD1000	YIE1000	08/02/05	1745
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID: YIE01PS BFB Injection Date: 08/03/05

Instrument ID: Y BFB Injection Time: 0634

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	69.0
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	40.0 - 60.0% of mass 198	47.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1.0% of mass 198	3.14
441	Present, but less than mass 443	12.0
442	Greater than 40.0% of mass 198	81.5
443	17.0 - 23.0% of mass 442	15.8 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YIE500A	08/03/05	0718
02	EB5	627512	627512	08/03/05	0822
03	LOSUSW1-1	627497	627497	08/03/05	0857
04	LOSISW1-DUP1	627498	627498	08/03/05	0933
05	LOSISW1-2	627499	627499	08/03/05	1008
06	LOSISW1-3	627500	627500	08/03/05	1044
07	LOSISW1-4	627501	627501	08/03/05	1120
08	LOSISW1-5	627502	627502	08/03/05	1155
09	LOSISW1-6	627503	627503	08/03/05	1231
10	LOSISW1-7	627504	627504	08/03/05	1307
11	LOSISW1-8	627505	627505	08/03/05	1343
12	LOSISW3-1	627506	627506	08/03/05	1419
13	LOSISW3-DUP1	627507	627507	08/03/05	1455
14	LOSISW3-2	627508	627508	08/03/05	1531
15	LOSISW3-3	627509	627509	08/03/05	1607
16	LOSISW3-4	627510	627510	08/03/05	1642
17	LOSISW3-5	627511	627511	08/03/05	1718
18	LOSISW3-5MS	627511MS	627511M	08/03/05	1754

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID: YIE01PS BFB Injection Date: 08/03/05

Instrument ID: Y BFB Injection Time: 0634

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	69.0
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	40.0 - 60.0% of mass 198	47.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1.0% of mass 198	3.14
441	Present, but less than mass 443	12.0
442	Greater than 40.0% of mass 198	81.5
443	17.0 - 23.0% of mass 442	15.8 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LOSISW3-5MSD	627511MD	627511S	08/03/05	1829
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID: YIE02PS BFB Injection Date: 08/04/05

Instrument ID: Y BFB Injection Time: 0641

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	67.8
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.98
441	Present, but less than mass 443	11.2
442	Greater than 40.0% of mass 198	74.9
443	17.0 - 23.0% of mass 442	14.2 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD500	SSTD500	YIE500B	08/04/05	0735
02	LOSISW3-4DL	627510D1	627510D	08/04/05	1145
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Instrument ID: Y Calibration Date(s): 07/28/05 07/28/05

Heated Purge: (Y/N) N Calibration Time(s): 1246 1509

GC Column: RTX-5 ID: 0.25 (mm)

LAB FILE ID: RRF40 =YID040 RRF200=YID200
RRF500=YID500 RRF1000=YID1000 RRF2000=YID2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	1.001	1.069	1.068	1.152	1.037	1.065	5.2*
2-Methylnaphthalene *	0.645	0.688	0.690	0.742	0.688	0.691	5.0*
1-Methylnaphthalene *	0.572	0.643	0.627	0.690	0.617	0.630	6.8*
Biphenyl *	1.572	1.731	1.734	1.784	1.671	1.698	4.8*
2,6 Dimethylnaphthalene *	1.166	1.271	1.280	1.708	1.437	1.372	15.4*
Acenaphthylene *	1.982	2.115	2.187	2.177	2.064	2.105	4.0*
Acenaphthene *	1.216	1.227	1.211	1.260	1.225	1.228	1.6*
2,3,5 Trimethylnaphthalene *	1.113	1.114	1.073	1.108	1.061	1.094	2.3*
Fluorene *	1.442	1.464	1.429	1.437	1.401	1.435	1.6*
Phenanthrene *	1.476	1.403	1.335	1.387	1.301	1.380	4.9*
Anthracene *	1.521	1.475	1.300	1.425	1.296	1.403	7.3*
1-Methylphenanthrene *	1.007	0.922	0.921	0.976	0.926	0.950	4.1*
Fluoranthene *	1.517	1.367	1.313	1.366	1.276	1.368	6.7*
Pyrene *	1.585	1.415	1.414	1.510	1.416	1.468	5.3*
Benzo(a)anthracene *	1.546	1.455	1.444	1.440	1.386	1.454	4.0*
Chrysene *	1.638	1.549	1.333	1.389	1.318	1.445	9.8*
Benzo(b)fluoranthene *	1.574	1.222	1.288	1.374	1.414	1.374	9.8*
Benzo(k)fluoranthene *	1.619	1.779	1.605	1.585	1.446	1.607	7.4*
Benzo(e)pyrene *	1.322	1.200	1.177	1.195	1.138	1.206	5.7*
Benzo(a)pyrene *	1.340	1.214	1.160	1.199	1.161	1.215	6.1*
Perylene *	1.459	1.423	1.296	1.381	1.344	1.381	4.7*
Indeno(1,2,3-cd)pyrene *	0.921	0.939	0.881	0.950	0.928	0.924	2.8*
Dibenz(a,h)anthracene *	0.756	0.764	0.687	0.740	0.727	0.735	4.1*
Benzo(g,h,i)perylene *	0.720	0.696	0.671	0.721	0.713	0.704	3.0*
Naphthalene-d8(SS) *	1.361	1.391	1.552	1.285	1.354	1.389	7.2*
Acenaphthene-d10(SS) *	0.718	0.720	0.786	0.686	0.695	0.721	5.4*
Phenanthrene-d10(SS) *	1.084	1.091	1.225	1.038	1.063	1.100	6.6*
Chrysene-d12(SS) *	1.107	1.073	1.134	1.002	1.003	1.064	5.6*
Perylene-d12(SS) *	0.814	0.800	0.848	0.735	0.753	0.790	5.8*

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

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Instrument ID: Y Calibration Date(s): 08/02/05 08/02/05

Heated Purge: (Y/N) N Calibration Time(s): 1431 1745

GC Column: RTX-5 ID: 0.25 (mm)

LAB FILE ID: RRF40 =YIE040 RRF200=YIE200
RRF500=YIE500 RRF1000=YIE1000 RRF2000=YIE2000

COMPOUND	RRF40	RRF200	RRF500	RRF 1000	RRF 2000	$\overline{RRF}$	% RSD
Naphthalene *	0.973	1.009	1.059	1.019	1.007	1.013	3.1*
2-Methylnaphthalene *	0.645	0.648	0.688	0.655	0.665	0.660	2.6*
1-Methylnaphthalene *	0.566	0.597	0.636	0.608	0.602	0.602	4.2*
Biphenyl *	1.515	1.570	1.769	1.722	1.688	1.653	6.4*
2,6 Dimethylnaphthalene *	1.099	1.156	1.307	1.484	1.580	1.325	15.6*
Acenaphthylene *	1.889	1.931	2.298	2.206	2.085	2.082	8.4*
Acenaphthene *	1.126	1.148	1.254	1.266	1.245	1.208	5.4*
2,3,5 Trimethylnaphthalene *	1.030	1.006	1.088	1.096	1.083	1.061	3.8*
Fluorene *	1.254	1.332	1.478	1.434	1.372	1.374	6.4*
Phenanthrene *	1.249	1.331	1.384	1.345	1.326	1.327	3.7*
Anthracene *	1.238	1.377	1.519	1.467	1.381	1.396	7.7*
1-Methylphenanthrene *	0.815	0.865	0.955	0.945	0.927	0.901	6.6*
Fluoranthene *	1.185	1.297	1.372	1.302	1.278	1.287	5.2*
Pyrene *	1.293	1.359	1.489	1.443	1.419	1.401	5.5*
Benzo(a)anthracene *	1.284	1.440	1.380	1.376	1.343	1.365	4.2*
Chrysene *	1.304	1.537	1.273	1.522	1.282	1.384	9.7*
Benzo(b)fluoranthene *	1.098	1.243	1.395	1.160	1.193	1.218	9.2*
Benzo(k)fluoranthene *	1.317	1.783	1.394	1.682	1.659	1.567	12.8*
Benzo(e)pyrene *	1.106	1.269	1.217	1.198	1.192	1.196	4.9*
Benzo(a)pyrene *	0.933	1.190	1.152	1.134	1.151	1.112	9.2*
Perylene *	1.048	1.367	1.328	1.387	1.363	1.299	10.9*
Indeno(1,2,3-cd)pyrene *	0.881	1.084	1.042	1.033	1.098	1.028	8.4*
Dibenz(a,h)anthracene *	0.662	0.762	0.740	0.736	0.814	0.743	7.4*
Benzo(g,h,i)perylene *	0.861	1.007	0.980	0.966	1.022	0.967	6.6*
Naphthalene-d8(SS) *	1.278	1.410	1.361	1.439	1.310	1.360	4.9*
Acenaphthene-d10(SS) *	0.678	0.745	0.681	0.699	0.652	0.691	5.0*
Phenanthrene-d10(SS) *	1.033	1.082	1.025	1.048	0.978	1.033	3.6*
Chrysene-d12(SS) *	1.023	0.923	0.969	0.977	0.876	0.954	5.9*
Perylene-d12(SS) *	0.779	0.759	0.726	0.754	0.694	0.742	4.4*

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Instrument ID: Y Calibration Date: 08/01/05 Time: 1248

Lab File ID: YID500B Init. Calib. Date(s): 07/28/05 07/28/05

Heated Purge: (Y/N) N Init. Calib. Times: 1246 1509

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.065	1.054	0.2	1.0	25.0
2-Methylnaphthalene	0.691	0.693	0.2	0.3	25.0
1-Methylnaphthalene	0.630	0.626	0.2	0.6	25.0
Biphenyl	1.698	1.706	0.2	0.5	25.0
2,6 Dimethylnaphthalene	1.372	1.253	0.2	8.7	25.0
Acenaphthylene	2.105	2.152	0.2	2.2	25.0
Acenaphthene	1.228	1.240	0.2	1.0	25.0
2,3,5 Trimethylnaphthalene	1.094	1.097	0.2	0.3	25.0
Fluorene	1.435	1.451	0.2	1.1	25.0
Phenanthrene	1.380	1.318	0.2	4.5	25.0
Anthracene	1.403	1.443	0.2	2.8	25.0
1-Methylphenanthrene	0.950	0.920	0.2	3.2	25.0
Fluoranthene	1.368	1.282	0.2	6.3	25.0
Pyrene	1.468	1.332	0.2	9.3	25.0
Benzo(a)anthracene	1.454	1.465	0.2	0.8	25.0
Chrysene	1.445	1.307	0.2	9.6	25.0
Benzo(b)fluoranthene	1.374	1.098	0.2	20.1	25.0
Benzo(k)fluoranthene	1.607	1.789	0.2	11.3	25.0
Benzo(e)pyrene	1.206	1.074	0.2	10.9	25.0
Benzo(a)pyrene	1.215	1.092	0.2	10.1	25.0
Perylene	1.381	1.242	0.2	10.1	25.0
Indeno(1,2,3-cd)pyrene	0.924	0.745	0.2	19.4	25.0
Dibenz(a,h)anthracene	0.735	0.575	0.2	21.8	25.0
Benzo(g,h,i)perylene	0.704	0.544	0.2	22.7	25.0
Naphthalene-d8(SS)	1.389	1.271	0.2	8.5	25.0
Acenaphthene-d10(SS)	0.721	0.664	0.2	7.9	25.0
Phenanthrene-d10(SS)	1.100	1.057	0.2	3.9	25.0
Chrysene-d12(SS)	1.064	1.043	0.2	2.0	25.0
Perylene-d12(SS)	0.790	0.670	0.2	15.2	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Instrument ID: Y Calibration Date: 08/03/05 Time: 0718

Lab File ID: YIE500A Init. Calib. Date(s): 08/02/05 08/02/05

Heated Purge: (Y/N) N Init. Calib. Times: 1431 1745

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.013	1.061	0.2	4.7	25.0
2-Methylnaphthalene	0.660	0.678	0.2	2.7	25.0
1-Methylnaphthalene	0.602	0.620	0.2	3.0	25.0
Biphenyl	1.653	1.792	0.2	8.4	25.0
2,6 Dimethylnaphthalene	1.325	1.309	0.2	1.2	25.0
Acenaphthylene	2.082	2.287	0.2	9.8	25.0
Acenaphthene	1.208	1.311	0.2	8.5	25.0
2,3,5 Trimethylnaphthalene	1.061	1.111	0.2	4.7	25.0
Fluorene	1.374	1.473	0.2	7.2	25.0
Phenanthrene	1.327	1.409	0.2	6.2	25.0
Anthracene	1.396	1.494	0.2	7.0	25.0
1-Methylphenanthrene	0.901	0.992	0.2	10.1	25.0
Fluoranthene	1.287	1.321	0.2	2.6	25.0
Pyrene	1.401	1.509	0.2	7.7	25.0
Benzo(a)anthracene	1.365	1.338	0.2	2.0	25.0
Chrysene	1.384	1.456	0.2	5.2	25.0
Benzo(b)fluoranthene	1.218	1.117	0.2	8.3	25.0
Benzo(k)fluoranthene	1.567	1.596	0.2	1.8	25.0
Benzo(e)pyrene	1.196	1.143	0.2	4.4	25.0
Benzo(a)pyrene	1.112	1.119	0.2	0.6	25.0
Perylene	1.299	1.327	0.2	2.2	25.0
Indeno(1,2,3-cd)pyrene	1.028	0.975	0.2	5.2	25.0
Dibenz(a,h)anthracene	0.743	0.694	0.2	6.6	25.0
Benzo(g,h,i)perylene	0.967	0.909	0.2	6.0	25.0
Naphthalene-d8(SS)	1.360	1.358	0.2	0.1	25.0
Acenaphthene-d10(SS)	0.691	0.654	0.2	5.4	25.0
Phenanthrene-d10(SS)	1.033	0.974	0.2	5.7	25.0
Chrysene-d12(SS)	0.954	1.031	0.2	8.1	25.0
Perylene-d12(SS)	0.742	0.756	0.2	1.9	25.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Instrument ID: Y Calibration Date: 08/04/05 Time: 0735

Lab File ID: YIE500B Init. Calib. Date(s): 08/02/05 08/02/05

Heated Purge: (Y/N) N Init. Calib. Times: 1431 1745

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Naphthalene	1.013	1.061	0.2	4.7	25.0
2-Methylnaphthalene	0.660	0.693	0.2	5.0	25.0
1-Methylnaphthalene	0.602	0.633	0.2	5.1	25.0
Biphenyl	1.653	1.793	0.2	8.5	25.0
2,6 Dimethylnaphthalene	1.325	1.318	0.2	0.5	25.0
Acenaphthylene	2.082	2.310	0.2	11.0	25.0
Acenaphthene	1.208	1.304	0.2	7.9	25.0
2,3,5 Trimethylnaphthalene	1.061	1.117	0.2	5.3	25.0
Fluorene	1.374	1.449	0.2	5.4	25.0
Phenanthrene	1.327	1.385	0.2	4.4	25.0
Anthracene	1.396	1.503	0.2	7.7	25.0
1-Methylphenanthrene	0.901	0.943	0.2	4.7	25.0
Fluoranthene	1.287	1.279	0.2	0.6	25.0
Pyrene	1.401	1.394	0.2	0.5	25.0
Benzo(a)anthracene	1.365	1.375	0.2	0.7	25.0
Chrysene	1.384	1.338	0.2	3.3	25.0
Benzo(b)fluoranthene	1.218	1.116	0.2	8.4	25.0
Benzo(k)fluoranthene	1.567	1.653	0.2	5.5	25.0
Benzo(e)pyrene	1.196	1.182	0.2	1.2	25.0
Benzo(a)pyrene	1.112	1.125	0.2	1.2	25.0
Perylene	1.299	1.262	0.2	2.8	25.0
Indeno(1,2,3-cd)pyrene	1.028	0.956	0.2	7.0	25.0
Dibenz(a,h)anthracene	0.743	0.668	0.2	10.1	25.0
Benzo(g,h,i)perylene	0.967	0.878	0.2	9.2	25.0
Naphthalene-d8(SS)	1.360	1.391	0.2	2.3	25.0
Acenaphthene-d10(SS)	0.691	0.673	0.2	2.6	25.0
Phenanthrene-d10(SS)	1.033	1.001	0.2	3.1	25.0
Chrysene-d12(SS)	0.954	0.994	0.2	4.2	25.0
Perylene-d12(SS)	0.742	0.722	0.2	2.7	25.0

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YID500B Date Analyzed: 08/01/05

Instrument ID: Y Time Analyzed: 1248

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	55866	10.03	29211	13.60	29309	14.62
	UPPER LIMIT	111732	10.53	58422	14.10	58618	15.12
	LOWER LIMIT	27933	9.53	14606	13.10	14654	14.12
	STLVT SAMPLE NO.						
01	S4LCS	37124	10.03	20410	13.60	24537	14.62
02	SBLKS4	4161*	10.03	5870*	13.59	25027	14.62
03	LOSISW3-6	37477	10.03	19326	13.59	26125	14.62
04	LOSISW3-7	28451	10.03	17869	13.60	26133	14.62
05	LOSIS-W-3-8	27261*	10.03	16243	13.59	26229	14.62
06							
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20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YID500B Date Analyzed: 08/01/05

Instrument ID: Y Time Analyzed: 1248

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	46474	16.56	30883	21.94	19732	24.49
	UPPER LIMIT	92948	17.06	61766	22.44	39464	24.99
	LOWER LIMIT	23237	16.06	15442	21.44	9866	23.99
	STLVT SAMPLE NO.						
01	S4LCS	30537	16.56	19352	21.94	15050	24.49
02	SBLKS4	25420	16.56	20480	21.93	14611	24.50
03	LOSISW3-6	28557	16.56	18944	21.94	15718	24.50
04	LOSISW3-7	27799	16.56	17917	21.94	15556	24.50
05	LOSIS-W-3-8	24494	16.56	16708	21.94	15993	24.50
06							
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YID500B Date Analyzed: 08/01/05

Instrument ID: Y Time Analyzed: 1248

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	19838	24.62				
	UPPER LIMIT	39676	25.12				
	LOWER LIMIT	9919	24.12				
	STLVT SAMPLE NO.						
01	S4LCS	12089	24.64				
02	SBLKS4	13235	24.64				
03	LOSISW3-6	11929	24.65				
04	LOSISW3-7	11650	24.64				
05	LOSIS-W-3-8	9635*	24.64				
06							
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22							

IS7 (PRY) = Perylene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YIE500A Date Analyzed: 08/03/05

Instrument ID: Y Time Analyzed: 0718

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	57611	10.02	27723	13.57	28275	14.60
	UPPER LIMIT	115222	10.52	55446	14.07	56550	15.10
	LOWER LIMIT	28806	9.52	13862	13.07	14138	14.10
	STLVT SAMPLE NO.						
01	EB5	38701	10.02	21030	13.57	30242	14.60
02	LOSUSW1-1	37182	10.02	20434	13.55	26117	14.60
03	LOSISW1-DUP1	27106*	10.02	15779	13.55	27694	14.60
04	LOSISW1-2	31140	10.02	17549	13.55	28660	14.60
05	LOSISW1-3	28449*	10.02	16177	13.56	27064	14.60
06	LOSISW1-4	30439	10.02	22187	13.55	27948	14.60
07	LOSISW1-5	40402	10.02	22119	13.55	27080	14.60
08	LOSISW1-6	24662*	10.02	14157	13.55	27189	14.60
09	LOSISW1-7	35685	10.02	20630	13.55	27124	14.60
10	LOSISW1-8	36538	10.02	21408	13.55	26903	14.60
11	LOSISW3-1	34882	10.02	19720	13.55	28233	14.60
12	LOSISW3-DUP1	18148*	10.02	16436	13.55	28674	14.60
13	LOSISW3-2	34038	10.02	19917	13.55	27784	14.60
14	LOSISW3-3	37613	10.02	21403	13.55	29089	14.60
15	LOSISW3-4	38113	10.02	22920	13.55	26791	14.60
16	LOSISW3-5	17830*	10.02	10602*	13.57	28911	14.60
17	LOSISW3-5MS	15556*	10.02	16042	13.55	30394	14.60
18	LOSISW3-5MSD	46434	10.02	25573	13.55	25997	14.60
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YIE500A Date Analyzed: 08/03/05

Instrument ID: Y Time Analyzed: 0718

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	41334	16.53	32785	21.89	21191	24.45
	UPPER LIMIT	82668	17.03	65570	22.39	42382	24.95
	LOWER LIMIT	20667	16.03	16392	21.39	10596	23.95
	STLVT SAMPLE NO.						
01	EB5	27399	16.54	24646	21.89	20901	24.45
02	LOSUSW1-1	27959	16.51	19149	21.89	19269	24.45
03	LOSISW1-DUP1	22430	16.51	15864*	21.89	20637	24.45
04	LOSISW1-2	24972	16.52	18020	21.89	21619	24.45
05	LOSISW1-3	21932	16.53	15885*	21.89	20663	24.45
06	LOSISW1-4	33016	16.54	22172	21.89	21535	24.45
07	LOSISW1-5	30681	16.53	20625	21.89	20281	24.45
08	LOSISW1-6	20014*	16.53	13799*	21.89	20517	24.45
09	LOSISW1-7	28416	16.53	19264	21.89	20268	24.46
10	LOSISW1-8	29694	16.53	20350	21.89	20321	24.46
11	LOSISW3-1	28269	16.54	18096	21.89	20149	24.45
12	LOSISW3-DUP1	27406	16.54	17584	21.89	19633	24.46
13	LOSISW3-2	26724	16.54	17811	21.89	19721	24.45
14	LOSISW3-3	30208	16.53	19438	21.89	19869	24.45
15	LOSISW3-4	31004	16.53	21618	21.89	19680	24.45
16	LOSISW3-5	15580*	16.53	10113*	21.89	20483	24.45
17	LOSISW3-5MS	29468	16.53	20004	21.89	21339	24.46
18	LOSISW3-5MSD	34263	16.53	24228	21.89	17868	24.46
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YIE500A Date Analyzed: 08/03/05

Instrument ID: Y Time Analyzed: 0718

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	24017	24.59				
	UPPER LIMIT	48034	25.09				
	LOWER LIMIT	12008	24.09				
	STLVT SAMPLE NO.						
01	EB5	17072	24.59				
02	LOSUSW1-1	14107	24.59				
03	LOSISW1-DUP1	10069*	24.59				
04	LOSISW1-2	10570*	24.59				
05	LOSISW1-3	10637*	24.59				
06	LOSISW1-4	10810*	24.59				
07	LOSISW1-5	13439	24.61				
08	LOSISW1-6	8748*	24.61				
09	LOSISW1-7	14064	24.59				
10	LOSISW1-8	14048	24.59				
11	LOSISW3-1	11391*	24.61				
12	LOSISW3-DUP1	9357*	24.61				
13	LOSISW3-2	8452*	24.61				
14	LOSISW3-3	11449*	24.61				
15	LOSISW3-4	17079	24.61				
16	LOSISW3-5	8455*	24.61				
17	LOSISW3-5MS	16652	24.61				
18	LOSISW3-5MSD	15542	24.61				
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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

Column used to flag values outside QC limits with an asterisk.
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YIE500B Date Analyzed: 08/04/05

Instrument ID: Y Time Analyzed: 0735

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	75405	10.02	36474	13.57	36138	14.60
	UPPER LIMIT	150810	10.52	72948	14.07	72276	15.10
	LOWER LIMIT	37702	9.52	18237	13.07	18069	14.10
	STLVT SAMPLE NO.						
01	LOSISW3-4DL	25962*	10.02	15934*	13.55	28015	14.60
02							
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22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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RT UPPER LIMIT = + 0.50 minutes of internal standard RT
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YIE500B Date Analyzed: 08/04/05

Instrument ID: Y Time Analyzed: 0735

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	54277	16.53	36505	21.89	24482	24.45
	UPPER LIMIT	108554	17.03	73010	22.39	48964	24.95
	LOWER LIMIT	27138	16.03	18252	21.39	12241	23.95
	STLVT SAMPLE NO.						
01	LOSISW3-4DL	21820*	16.52	15457*	21.89	21648	24.45
02							
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Benzo(a)pyrene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 25000

Lab Code: STLVT Case No.: 25000 SAS No.: SDG No.: 108177

Lab File ID (Standard): YIE500B Date Analyzed: 08/04/05

Instrument ID: Y Time Analyzed: 0735

GC Column: RTX-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	26530	24.59				
	UPPER LIMIT	53060	25.09				
	LOWER LIMIT	13265	24.09				
	STLVT SAMPLE NO.						
01	LOSISW3-4DL	11777*	24.59				
02							
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04							
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22							

IS7 (PRY) = Perylene-d12

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

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

APPENDIX F

DATA ASSESSMENT REPORT

APPENDIX F

DATA ASSESSMENT REPORT

APPENDIX F

DATA ASSESSMENT REPORT

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ASHLAND/NSP LAKEFRONT SITE
RI REPORT - APPENDIX F
WDNR BRRTS #02-02-00013
CERCLA DOCKET NO. V-W-04-C-764
USEPA ID# WISFN057952

DATA ASSESSMENT REPORT

F.0 DATA QUALITY REVIEW

This Data Assessment Report (DAR) summarizes the usability of the analytical data generated for the Remedial Investigation (RI) at the Ashland/NSP Lakefront Superfund Site ("Site"). The Data Quality Indicators (DQIs) and Quality Assurance/Quality Control (QA/QC) objectives for field sampling and analysis relevant to the RI are documented in the following approved plans:

- Remedial Investigation/Feasibility Study (RI/FS) Work Plan Revision 02 Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. (February 2005) ("RI/FS Work Plan");
- Quality Assurance Project Plan RI/FS Tasks, Revision 03, Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. Remedial Investigation/Feasibility Study (February 2005) ("project QAPP"); and
- Field Sampling Plan, RI/FS Tasks, Revision 02, Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. Remedial Investigation/Feasibility Study (February 2005) ("FSP").

In addition, the project QAPP was amended to include sampling protocols for smelt sampling and analysis (Addendum 01, April 2004), mobile laboratory analysis for reconnaissance activities (Addendum 02, May 2005), and ecological water and sediment studies (Addendum 03, June, revised October 2005). Sections of the aforementioned plans are referenced throughout this DAR to highlight the specific field sampling and analysis practices for the RI report.

The RI/FS Work Plan describes the field and laboratory activities for the following types of investigations for the Site:

- Surface and subsurface soil sampling
- Sediment reconnaissance sampling
- Fish sampling and tissue analysis
- Soil vapor probe and indoor air sampling (winter and summer events)
- Passive diffusion bag groundwater sampling
- Sediment sampling and forensic analysis
- Test pit and surface soil sampling
- Surface water sampling (low and high energy events)

Table F-1 provides a summary of the sampling periods and matrices.

The data quality and usability of the results for these investigations are summarized in this DAR. Data quality assessments for benthic invertebrate and physical/hydraulic parameter collection are not presented in this DAR since the data quality assessment process for these sampling programs is not part of United

ASHLAND/NSP LAKEFRONT SITE
RI REPORT - APPENDIX F
WDNR BRRTS #02-02-00013
CERCLA DOCKET NO. V-W-04-C-764
USEPA ID# WISFN057952

DATA ASSESSMENT REPORT

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- Sediment sampling and forensic analysis
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ASHLAND/NSP LAKEFRONT SITE
RI REPORT - APPENDIX F
WDNR BRRTS #02-02-00013
CERCLA DOCKET NO. V-W-04-C-764
USEPA ID# WISFN057952

DATA ASSESSMENT REPORT

F.0 DATA QUALITY REVIEW

This Data Assessment Report (DAR) summarizes the usability of the analytical data generated for the Remedial Investigation (RI) at the Ashland/NSP Lakefront Superfund Site ("Site"). The Data Quality Indicators (DQIs) and Quality Assurance/Quality Control (QA/QC) objectives for field sampling and analysis relevant to the RI are documented in the following approved plans:

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The RI/FS Work Plan describes the field and laboratory activities for the following types of investigations for the Site:

- Surface and subsurface soil sampling
- Sediment reconnaissance sampling
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- Soil vapor probe and indoor air sampling (winter and summer events)
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Table F-1 provides a summary of the sampling periods and matrices.

The data quality and usability of the results for these investigations are summarized in this DAR. Data quality assessments for benthic invertebrate and physical/hydraulic parameter collection are not presented in this DAR since the data quality assessment process for these sampling programs is not part of United

States Environmental Protection Agency (USEPA) *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (1999) and USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2004) and was not a specific requirement of the project QAPP.

The major components of the QA/QC program include the collection and analysis of QC samples, the use of standardized SOPs for field and laboratory activities, and data validation of analytical results. Sections F.1, F.2, and F.3 describe these components of the QA/QC program in greater detail. Sections F.4 through F.9 summarize the data validation results for each laboratory and sampling program for the RI. The collection program was evaluated by reviewing field logbooks. The review is described in Section F.10. The data usability/assessment for the entire data set is found in Section F.11. The data from the following analytical laboratories (and investigations) were evaluated for the RI:

- Northern Lake Services, Inc. (NLS), Crandon, Wisconsin – soil, sediment, groundwater (including diffusion bags), and surface water analyses;
- Environmental Chemistry Consulting Service (ECCS), Madison, Wisconsin – reconnaissance sediment analyses using an onsite mobile laboratory;
- Severn Trent Laboratory (STL), Knoxville, Tennessee – soil gas and vapor intrusion analyses
- STL, Burlington, Vermont – fish tissue and sediment analyses; geophysical analyses;
- Pace Analytical, Inc., Kimberly, Wisconsin and EnChem, Madison, Wisconsin laboratories (Pace/EnChem) – bioassay water and tissue analyses;
- Teledyne Brown Engineering (TBE) – radiochemistry age-dating of sediment cores;
- Woods Hole Group Environmental Laboratories (WHGEL), Raynham, Massachusetts - hydrocarbon characterization[1]; and
- University of Kentucky (UK), Lexington, Kentucky - organic petrology measurements[1].

Other laboratories providing historic and/or air testing information for the RI report included STL (Chicago, Illinois), EnChem (Madison, Wisconsin), Enviroscan (Lancaster, Pennsylvania), Test America (Cedar Falls, Iowa), and Wisconsin Industrial Hygiene (Madison, Wisconsin). The data usability for the historic data is presented (where available) in the historical reports or other RI documents, but is not part of this DAR. A summary of the historic reports is found in Section 2.4 of the RI/FS Work Plan (URS, 2005c).

F.1 QUALITY CONTROL SAMPLE COLLECTION

Field and laboratory QC samples were collected and analyzed at different frequencies depending upon the sampling program and matrix collected. Field QC samples were collected for the various matrices based on specifications in the project QAPP and its addenda. Similarly, laboratory QC samples were analyzed based on the requirements of the reference analytical test method that was performed and the laboratory-specific standard operating procedures (SOPs). Field QC samples included equipment blanks, field blanks, trip blanks, methanol blanks, field duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples. Laboratory QC samples included method blanks, laboratory control sample (LCS), and MS/MSD, and for metal analyses, contract required detection limit (CRDL) standards, serial dilutions, and post-digestion spikes (PDS). The collection frequency for field and laboratory QC samples followed

[1] QA/QC procedures for hydrocarbon characterization are found in Appendix A of the project QAPP (URS, 2004b). This DAR does not include a summary of the data usability associated with the hydrocarbon characterization of sediments. See Section F.3 for further details.

States Environmental Protection Agency (USEPA) *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (1999) and USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2004) and was not a specific requirement of the project QAPP.

The major components of the QA/QC program include the collection and analysis of QC samples, the use of standardized SOPs for field and laboratory activities, and data validation of analytical results. Sections F.1, F.2, and F.3 describe these components of the QA/QC program in greater detail. Sections F.4 through F.9 summarize the data validation results for each laboratory and sampling program for the RI. The collection program was evaluated by reviewing field logbooks. The review is described in Section F.10. The data usability/assessment for the entire data set is found in Section F.11. The data from the following analytical laboratories (and investigations) were evaluated for the RI:

- Northern Lake Services, Inc. (NLS), Crandon, Wisconsin – soil, sediment, groundwater (including diffusion bags), and surface water analyses;
- Environmental Chemistry Consulting Service (ECCS), Madison, Wisconsin – reconnaissance sediment analyses using an onsite mobile laboratory;
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- STL, Burlington, Vermont – fish tissue and sediment analyses; geophysical analyses;
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Other laboratories providing historic and/or air testing information for the RI report included STL (Chicago, Illinois), EnChem (Madison, Wisconsin), Enviroscan (Lancaster, Pennsylvania), Test America (Cedar Falls, Iowa), and Wisconsin Industrial Hygiene (Madison, Wisconsin). The data usability for the historic data is presented (where available) in the historical reports or other RI documents, but is not part of this DAR. A summary of the historic reports is found in Section 2.4 of the RI/FS Work Plan (URS, 2005c).

F.1 QUALITY CONTROL SAMPLE COLLECTION

Field and laboratory QC samples were collected and analyzed at different frequencies depending upon the sampling program and matrix collected. Field QC samples were collected for the various matrices based on specifications in the project QAPP and its addenda. Similarly, laboratory QC samples were analyzed based on the requirements of the reference analytical test method that was performed and the laboratory-specific standard operating procedures (SOPs). Field QC samples included equipment blanks, field blanks, trip blanks, methanol blanks, field duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples. Laboratory QC samples included method blanks, laboratory control sample (LCS), and MS/MSD, and for metal analyses, contract required detection limit (CRDL) standards, serial dilutions, and post-digestion spikes (PDS). The collection frequency for field and laboratory QC samples followed

[1] QA/QC procedures for hydrocarbon characterization are found in Appendix A of the project QAPP (URS, 2004b). This DAR does not include a summary of the data usability associated with the hydrocarbon characterization of sediments. See Section F.3 for further details.

States Environmental Protection Agency (USEPA) *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (1999) and USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2004) and was not a specific requirement of the project QAPP.

The major components of the QA/QC program include the collection and analysis of QC samples, the use of standardized SOPs for field and laboratory activities, and data validation of analytical results. Sections F.1, F.2, and F.3 describe these components of the QA/QC program in greater detail. Sections F.4 through F.9 summarize the data validation results for each laboratory and sampling program for the RI. The collection program was evaluated by reviewing field logbooks. The review is described in Section F.10. The data usability/assessment for the entire data set is found in Section F.11. The data from the following analytical laboratories (and investigations) were evaluated for the RI:

- Northern Lake Services, Inc. (NLS), Crandon, Wisconsin – soil, sediment, groundwater (including diffusion bags), and surface water analyses;
- Environmental Chemistry Consulting Service (ECCS), Madison, Wisconsin – reconnaissance sediment analyses using an onsite mobile laboratory;
- Severn Trent Laboratory (STL), Knoxville, Tennessee – soil gas and vapor intrusion analyses
- STL, Burlington, Vermont – fish tissue and sediment analyses; geophysical analyses;
- Pace Analytical, Inc., Kimberly, Wisconsin and EnChem, Madison, Wisconsin laboratories (Pace/EnChem) – bioassay water and tissue analyses;
- Teledyne Brown Engineering (TBE) – radiochemistry age-dating of sediment cores;
- Woods Hole Group Environmental Laboratories (WHGEL), Raynham, Massachusetts - hydrocarbon characterization[1]; and
- University of Kentucky (UK), Lexington, Kentucky - organic petrology measurements[1].

Other laboratories providing historic and/or air testing information for the RI report included STL (Chicago, Illinois), EnChem (Madison, Wisconsin), Enviroscan (Lancaster, Pennsylvania), Test America (Cedar Falls, Iowa), and Wisconsin Industrial Hygiene (Madison, Wisconsin). The data usability for the historic data is presented (where available) in the historical reports or other RI documents, but is not part of this DAR. A summary of the historic reports is found in Section 2.4 of the RI/FS Work Plan (URS, 2005c).

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[1] QA/QC procedures for hydrocarbon characterization are found in Appendix A of the project QAPP (URS, 2004b). This DAR does not include a summary of the data usability associated with the hydrocarbon characterization of sediments. See Section F.3 for further details.

criteria specified in Section 4.2 (Measurement Performance Criteria - PARCC) and Section 5.13 (Collection of Quality Control Samples) of the project QAPP (URS, 2005b). Table F-2 shows the field QC samples collected or performed per matrix per laboratory (for the two-year groundwater sampling program and the 2005 soil/sediment/test pit programs). The laboratory QC samples analyzed per matrix per laboratory for the sampling programs are summarized in the laboratory SOPs provided in each of the QAPPs. Summaries of the findings associated with the field and laboratory QC analyses are found in Sections F.4 through F.9. These sections describe the individual laboratory performance for the RI work during the period from December 2003/January 2004 (initiation of groundwater sampling) through November 2005 (completion of RI sampling activities).

F.2 STANDARD OPERATING PROCEDURES

Field and laboratory SOPs for the RI are found in the RI/FS Work Plan (URS, 2005c), FSP (URS, 2005a) and QAPP and its addendums (URS, 2005b). Field SOPs were followed for sample collection, handling and decontamination, and the sediment and fish sampling conducted during the RI. Laboratory SOPs were followed for analytical, geotechnical, and toxicity testing. Analytical laboratories (i.e., those performing chemical testing) were required to meet analytical sensitivity requirements for the generation of data for most samples; geotechnical laboratories were required to follow standards procedures (e.g., grain size) to measure the physical nature of the matrix sample; and toxicity testing laboratories were required to follow specific protocols to assess potential ecological impact to aquatic/sediment habitats. These requirements were listed in the laboratory-specific SOPs. All SOPs for the analytical, geotechnical and toxicity testing were included in the reference documents listed in Section F.1.

F.3 LABORATORY DATA VALIDATION AND USABILITY ASSESSMENT

Data validation consists of evaluating the completeness, correctness, and conformance of a data set against the method, SOP, or contract requirements documented in the approved QAPP. Data assessment is the process of evaluating validated data to determine if they can be used for the purpose of the project (i.e., to answer the environmental questions or to make the environmental decision that must be made).

Validation of analytical data was based on principles found in the USEPA guidance documents, USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (1999) and USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2004). Data validation is a comprehensive review and examination of the raw data and subsequent re-calculation of results to verify the completeness of documentation and the accuracy of reported results. The validation also includes an assessment of sample handling, field QC sample analyses, and laboratory QC performance. Specifically, the items reviewed during the data validation process were:

- Analytical methods performed and test method references
- Sample Condition - review of log-in records for cooler temperature, presence of headspace, chemical preservation, etc.
- Holding times (comparison of collection, preparation, and analysis dates)
- Analytical results (units, values, significant figures, reporting limits, including any matrix interference problems, analyst, percent moisture)
- Sample traceability (Chain of Custody documentation)
- Method blank results and laboratory contamination
- Laboratory control sample (LCS) results and comparison to laboratory control limits
- Matrix spike/matrix spike duplicate (MS/MSD) results and comparison to laboratory control limits
- Field replicate/duplicate results and comparison to data review criteria

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- Surrogate recoveries (where applicable) and comparison to laboratory control limits
- Internal standard values (where applicable) and comparison to laboratory control limits
- Instrument calibrations (initial and continuing)
- Chromatograms (form, structure, baseline)
- Quantitation reports (calculations)
- Mass spectra (GC/MS only)
- Internal standards
- Retention times
- Run logs/sequence logs
- Preparation/extraction logs
- Interference check samples (inorganics only)
- Instrument detection limits (inorganics only)
- Serial dilutions (inorganics only)

Data Validation Reports (DVRs) were prepared for all validations. Data validations were completed by Environmental Data Services (EDS), Concord, New Hampshire, and URS Corporation (URS), Chicago, Illinois. Each DVR contains a comprehensive listing of samples reviewed (field sample identifications and laboratory sample numbers), validation review elements, a summary of the individual method's performance, and the sample data sheets showing data validation qualifiers (and reasons for qualification) that were applied to the sample results. Edits were not made to the laboratory's sample data sheets if the performance and QC sample results were within laboratory or project criteria. When QC results indicated inadequate performance, the validation group applied data qualifiers to the results to inform the data user of the possible performance problem. These qualifiers are in addition to, or a revision of, the qualifiers provided by the laboratory. Data qualifying protocols were based on guidance from the CLP guidelines (USEPA, 1999 and USEPA, 2004a), the laboratory-specific SOPs, and SW846 guidance (USEPA, 2004b). The data qualifiers are presented on the laboratory analysis forms attached to the individual DVR included in Appendix G and are also shown on the final tables for the RI. The laboratories' original analysis reports are included in Appendix E.

On the basis of the validations, data were 1) accepted without qualification, 2) qualified as estimated ("J" for positive results, or "UJ" for non-detect results), or 3) rejected ("R"). A "J" qualifier was appended to those detected and undetected values that were usable, but should be considered estimated due to laboratory and/or field performance problems. In the case of rejected data, an "R" qualifier replaced the sample values, which were deemed unreliable, and therefore, not usable. Rejected data are data where the presence or absence of the result could not be determined nor supported by the results of laboratory method calibrations or other QC analyses.

Data qualifiers were added to the results in the electronic database by Newfields, Inc. (Newfields), Madison, Wisconsin, after completion of data validation. A printout of the final electronic data deliverable (EDD) for the RI, showing post-validation qualifiers and data revisions, is found in Tables 4-3 through 4-14. Consistent with the approach stated in the project QAPP (URS, 2005b), 100 percent of the analytical data was required to be validated for the RI. It should be noted that data validation was not performed on the analytical reports from the Woods Hole Group Environmental Laboratories (WHGEL), Raynham, Massachusetts, for hydrocarbon characterization and the University of Kentucky (UK), Lexington, Kentucky, for the organic petrology measurements due to an oversight. Data validation is currently in progress and will be reported in the June 2006 NSP/Lakefront Progress Report. Any impacts

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and changes to the use of the data will be documented in the Progress Report. The WHGEL and UK laboratories' analysis reports are included in the Forensics Report found in Appendix D3 of this RI report.

Data assessment of the validated project data involves the evaluation of the data quality in terms of precision, accuracy (bias), [sample] representativeness, completeness, and comparability (PARCC). It also includes an evaluation of the method sensitivity and quantitation limits for each matrix. The data quality indicators were evaluated by assessing the following:

- Conformance to sample collection procedures
- Conformance to analytical methodologies
- Sample handling and chain-of-custody (COC) issues
- Adherence to sample holding times
- Results of field and laboratory QC samples
- Instrument calibration and tuning (where required)
- Analytical performance checks
- Analytical sensitivity of results
- Completeness, comparability, and representativeness of results
- Laboratory flags and codes

The following, Sections F.4 through F.9, describe the findings of the validations for the laboratories performing testing for the RI.

F.4 NORTHERN LAKE SERVICES, INC. (NLS)

NLS performed analysis of groundwater (including passive diffusion bags), surface soils, subsurface soils, test pit samples, surface water, and sediment analyses for the RI. Data validation was performed on all NLS analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the results of the data validation for the NLS analytical reports is provided in Sections F.4.1 through F.4.11.

F.4.1 Conformance to the Sample Collection Procedures

Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). Few deviations with respect to sample collection and/or custody were noted in the DVRs. The deviations that were found included incomplete COC records (e.g., the sample ID was left off of the COC form, e.g., NS-GW-MW7A) or revision of the analysis request (e.g., hexavalent chromium was shown on the COC but analysis was cancelled per project management request). The COCs that were completed for each sampling event were included in the laboratory analysis reports provided in Appendix E.

Table 9 of the project QAPP specifies the container and preservation requirements for groundwater, soil and sediment samples. Sample collection procedures for aqueous and solid matrices were in accordance with SOPs provided in the project FSP (URS, 2005a). For aqueous sample collection, 40-milliliter (mL) glass vials were used for VOCs, 1-Liter (L) amber glass jars were used for SVOCs, and 125 to 250-mL plastic bottles were used for inorganic parameter groups. Chemical preservation was in accordance with requirements. For solid sample collection, 60-mL or larger, glass jars were used for VOC and SVOCs. For all other parameter groups, the laboratory provided appropriate glass containers. All sample containers were pre-cleaned in accordance with NLS cleaning requirements found in Appendix B of the project QAPP (URS, 2005b).

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F.4.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP (URS, 2005b) and included the following parameter groups and test methods:

- VOCs – SW846[2] Method 8260B; Method 5030 (aqueous); Method 5035 (solids)
- SVOCs – SW846 Method 8270C (full scan for solids); Method 3510C (aqueous); and Method 3550B (solids)
- PAHs – SW846 Method 8270C (selective ion monitoring [SIM] mode for aqueous); Method 3510C (aqueous); and Method 3550B (solids)
- Polychlorinated Biphenyls (PCBs) – SW846 Method 8082; and Method 3550B (solids)
- Organochlorine (OC) Pesticides – SW846 Method 8081A; and Method 3550B (solids)
- Total Cyanide – EPA[3] Method 335.4
- Turbidity – EPA Method 180.1
- Total Suspended Solids – EPA Method 160.2
- Oils/Grease – 40 CFR Part 136 Method 1664
- Total Metals – SW846 Method 6010B; Method 7041 (antimony); Method 7060 (arsenic); Method 7740 (selenium); Method 7841 (thallium); and Method 3005 or 3050M (aqueous digestion)
- Mercury – 40 CFR Part 136 Method 1631
- Hexavalent Chromium – SW846 Method 7196A
- Dissolved Organic Carbon (DOC) – SW846 Method 9060
- Percent Solids – EPA Method 160.3 (modified)

No deviations in the specified procedures were described in the laboratory analysis reports or in the DVRs for the aforementioned methods.

F.4.3 Sample Handling and Chain-of-Custody

Sample handling and COC procedures followed the procedures outlined in the project QAPP (URS, 2005b). The field team placed all samples on ice in a cooler until packaging for shipment to NLS. The exterior of the bottles were cleaned, checked for adequate labeling, wrapped to prevent breakage, and then packed on ice in a cooler for shipment. A COC form was completed for each cooler. Shipment was conducted using either private (e.g., URS) or commercial couriers. Copies of the completed forms (after receipt at NLS) are provided in Appendix E of the RI Report. Once received, NLS assigned a unique laboratory identification number to each sample and a Sample Delivery Group (SDG). The SDG is the means by which the laboratory identifies and groups samples for reporting purposes.

F.4.4 Adherence to Sample Holding Times

Holding times were met for most project sample analyses with the exception of several sets of re-analyses for SVOCs for some soil samples, several VOCs for some aqueous samples (e.g. NSP-SW-ER3-1105-NB-FI), and several original analyses for hexavalent chromium for the groundwater samples. Affected results were qualified as estimated ("J" flag for positive results and "UJ" for non-detect results) on the basis of the holding time exceedances. Results associated with analyses performed past recommended hold times may be negatively biased since the chemical of concern may be lost during extended storage. For the soil/sediment analyses, no results were rejected based on holding time issues. For the groundwater

[2] *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,* (SW846) USEPA, Final Update IIIB, November 2004.
[3] *Methods for Chemical Analysis of Water and Waste,* (EPA600/4-79-020) USEPA, Third Edition, March 1983.

F.4.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP (URS, 2005b) and included the following parameter groups and test methods:

- VOCs – SW846[2] Method 8260B; Method 5030 (aqueous); Method 5035 (solids)
- SVOCs – SW846 Method 8270C (full scan for solids); Method 3510C (aqueous); and Method 3550B (solids)
- PAHs – SW846 Method 8270C (selective ion monitoring [SIM] mode for aqueous); Method 3510C (aqueous); and Method 3550B (solids)
- Polychlorinated Biphenyls (PCBs) – SW846 Method 8082; and Method 3550B (solids)
- Organochlorine (OC) Pesticides – SW846 Method 8081A; and Method 3550B (solids)
- Total Cyanide – EPA[3] Method 335.4
- Turbidity – EPA Method 180.1
- Total Suspended Solids – EPA Method 160.2
- Oils/Grease – 40 CFR Part 136 Method 1664
- Total Metals – SW846 Method 6010B; Method 7041 (antimony); Method 7060 (arsenic); Method 7740 (selenium): Method 7841 (thallium); and Method 3005 or 3050M (aqueous digestion)
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analyses, several non-detect SVOC results (e.g., SDG 364754) were rejected due to missed holding times. These results were not usable for quantitative purposes per the DQOs established for this project.

F.4.5 Results of Field and Laboratory QC Samples

NLS analyzed field and laboratory QC samples in accordance with QAPP requirements. The following paragraphs explain the general findings of the QC sample analyses performed.

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for all methods in accordance with laboratory-specific SOPs. Percent recoveries and statistical control limits were reported for each LCS spiked compound. Percent recovery results outside of statistical control limits were noted by NLS and further qualified in the DVR as estimated ("J" flag for positive results and "UJ" for non-detect results). In general, the accuracy of the analyses was acceptable for most analytical groups. It should be noted that the DVRs described several SDGs where the LCS results for VOC analyses were not included in the laboratory analysis reports. No results were qualified as estimated by the validation group[4] due to the lack of LCS results since NLS indicated that they frequently use their continuing calibration verification (CCV) as an LCS analysis for the VOC method (i.e., the laboratory evaluated the percent recoveries of each compound to assess accuracy). The NLS CCV is similar to an LCS except that the CCV is not prepared from a second source. NLS stated that they do perform LCS analyses for the majority of batch analyses but not all. Additionally, they stated that if the MS/MSD analysis showed acceptable recoveries and RPDs, then the CCV and/or LCS results would not be provided. This reporting practice is outlined in the laboratory-specific SOP for VOCs in the approved QAPP (URS, 2005b) and was followed for all samples analyzed by NLS.

NLS also performed MS/MSD analyses on multiple project samples for all parameter groups. This included 32 spikes for VOCs, 31 spikes for SVOCs, 36 spikes for metals/cyanide, and 1 for OC Pesticides for the soil/sediment matrices, and 45 spikes for VOCs, 35 spikes for SVOCs, and 64 spikes for metals/cyanide for the groundwater/surface water matrices. (No aqueous samples were analyzed for OC Pesticides.) The project samples for VOC, SVOCs, OC Pesticides, and metals were spiked with the target chemical list and percent recoveries reported for each. The project samples for PCB analysis were spiked with two target chemicals, Aroclors 1016 and 1260, per the laboratory SOP. Similar to the LCS analyses, percent recoveries and statistical control limits were reported for each MS/MSD compound. Percent recoveries outside of statistical control limits were noted by the laboratory and further qualified in the DVR to show the impact on the analytical results. It should be noted that if the spike concentration was significantly less (four times) than the project sample concentration, the laboratory would not calculate the percent recovery. Qualification of data was not performed in these cases. The DVRs identified acceptable spike recoveries for most parameter groups and matrices. For the soil/sediment analyses, only a few VOCs (e.g., toluene in SDG 375103) and metals were rejected based on MS/MSD recoveries. For the groundwater analyses, only antimony was rejected in several SDGs (e.g., 365504) due to significantly low MS/MSD recoveries (less than 10 percent). These results are not usable for quantitative purposes per the DQOs established for this project. In general, the accuracy of all analytical methods performed by NLS was acceptable for all analytical groups.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

For the groundwater and soil investigations, the field QC samples included trip blanks, equipment blanks, field blanks, and methanol blanks. These were collected and analyzed at a frequency of one or more per day for the quarterly groundwater sampling event and approximately once per day for the

[4] EDS, Concord, New Hampshire

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All field QC samples were sent to NLS for analysis. No SVOCs were detected in the field blanks, but one SVOC (1-methylnaphthalene) was detected in two of the equipment blanks. The equipment blanks also contained multiple metals, the most frequent of which were zinc, nickel, aluminum, sodium, manganese, and chromium. The impact to the associated project samples was to qualify affected results based on an action level of 5 times the blank result. Few metals were detected in the field blanks. One VOC (toluene) was frequently detected in nearly all trip blanks, and most equipment and field blanks. After a thorough evaluation of its laboratory water system and solvents, NLS identified that toluene was most likely introduced into the field QC samples by cross contamination during sample storage and shipment. (Methanol readily absorbs volatile compounds from the atmosphere.) To test this theory, NLS sent methanol blanks with the pre-cleaned bottle shipments to the site in April and June 2005. After field storage and shipment, the results of the methanol blank analysis showed the presence of toluene even though none was present in the solvent prior to shipment. The results indicate that the toluene in some samples does not accurately reflect the actual environmental concentrations at the site. Data validation and qualification of results was based on this information. If the equipment blank, field blank, or trip blank contained a positive concentration of a chemical, then the associated project sample result was evaluated for potential contamination. If the sample result was positive, the result was revised to non-detect ("U" flag) if it was less than five times the concentration in the blank (i.e., action level). This qualification practice avoids the use of analytical results that are affected by cross-contamination and that are not truly representative of site conditions.

Laboratory blanks included method blanks, preparation blanks, and calibration blanks (as appropriate for the method) and that were analyzed at the frequency specified in the laboratory's SOPs. The results of the laboratory blank analyses for VOCs, SVOCs, and metals revealed very little laboratory organic and inorganic contamination. Method blanks for the metals analyses seemed to show the most frequent presence of several elements (e.g., aluminum, chromium, etc.). No contamination was found in the method blanks associated with the other methods (e.g., OC Pesticides) performed by NLS. For the VOC, SVOC, and metal analyses, the presence of these chemicals in the blanks indicates the possibility of false positives in the associated project samples. Similar to the qualification for field blanks, sample results were compared to action levels (i.e., 10 times for common laboratory contaminants or five times for non-common contaminants) established for each blank contaminant and the data qualified as non-detect ("U" flag) when less than the action level.

Duplicate Samples

Field duplicates were collected at a frequency of approximately one sample for every ten project samples for both solid and liquid matrices. The required rate of collection was 10 percent per QAPP requirements. The results of the field duplicates generally demonstrated good agreement (RPD less than 50 percent) for the majority of parameters and samples. However, the RPDs of the SVOC and inorganic analyses seemed to show greater imprecision than the results for VOCs. Sample homogenization techniques used by field staff coupled with method extraction techniques are thought to have yielded divergent results. Selected chemicals were qualified as estimated ("J" for positive results and "UJ" for non-detected results) based on

soil/sediment/surface water investigations. The trip blanks and methanol blanks were analyzed for VOCs. The field blanks and equipment blanks were analyzed for VOCs, SVOCs, and metals (26 inorganics including hexavalent chromium, trivalent chromium, total chromium, and cyanide). Field blanks for the sediment and water quality studies also included filtered and unfiltered samples and the analysis of dissolved organic carbon. Laboratory blanks included method blanks and instrument blanks where required. These were analyzed at least once per batch in accordance with the laboratory SOPs.

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Duplicate Samples

Field duplicates were collected at a frequency of approximately one sample for every ten project samples for both solid and liquid matrices. The required rate of collection was 10 percent per QAPP requirements. The results of the field duplicates generally demonstrated good agreement (RPD less than 50 percent) for the majority of parameters and samples. However, the RPDs of the SVOC and inorganic analyses seemed to show greater imprecision than the results for VOCs. Sample homogenization techniques used by field staff coupled with method extraction techniques are thought to have yielded divergent results. Selected chemicals were qualified as estimated ("J" for positive results and "UJ" for non-detected results) based on

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All field QC samples were sent to NLS for analysis. No SVOCs were detected in the field blanks, but one SVOC (1-methylnaphthalene) was detected in two of the equipment blanks. The equipment blanks also contained multiple metals, the most frequent of which were zinc, nickel, aluminum, sodium, manganese, and chromium. The impact to the associated project samples was to qualify affected results based on an action level of 5 times the blank result. Few metals were detected in the field blanks. One VOC (toluene) was frequently detected in nearly all trip blanks, and most equipment and field blanks. After a thorough evaluation of its laboratory water system and solvents, NLS identified that toluene was most likely introduced into the field QC samples by cross contamination during sample storage and shipment. (Methanol readily absorbs volatile compounds from the atmosphere.) To test this theory, NLS sent methanol blanks with the pre-cleaned bottle shipments to the site in April and June 2005. After field storage and shipment, the results of the methanol blank analysis showed the presence of toluene even though none was present in the solvent prior to shipment. The results indicate that the toluene in some samples does not accurately reflect the actual environmental concentrations at the site. Data validation and qualification of results was based on this information. If the equipment blank, field blank, or trip blank contained a positive concentration of a chemical, then the associated project sample result was evaluated for potential contamination. If the sample result was positive, the result was revised to non-detect ("U" flag) if it was less than five times the concentration in the blank (i.e., action level). This qualification practice avoids the use of analytical results that are affected by cross-contamination and that are not truly representative of site conditions.

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Duplicate Samples

Field duplicates were collected at a frequency of approximately one sample for every ten project samples for both solid and liquid matrices. The required rate of collection was 10 percent per QAPP requirements. The results of the field duplicates generally demonstrated good agreement (RPD less than 50 percent) for the majority of parameters and samples. However, the RPDs of the SVOC and inorganic analyses seemed to show greater imprecision than the results for VOCs. Sample homogenization techniques used by field staff coupled with method extraction techniques are thought to have yielded divergent results. Selected chemicals were qualified as estimated ("J" for positive results and "UJ" for non-detected results) based on

RPDs that exceeded 30 percent for aqueous samples and 50 percent for solid samples. No results were rejected based on field duplicate results.

Laboratory duplicate samples were not required to be analyzed for this project with the exception of the MS/MSD duplicates. MS/MSD analyses were performed at a frequency of at least one per 20 samples for all parameter groups. Agreement between the two sample results, expressed as RPD, met the criteria of the analytical methods for the primary methods of analysis (VOC, SVOC, and inorganics) and for other analyses (PCBs, hexavalent chromium, etc.) in most cases. Where the RPDs were greater than the laboratory's corresponding upper control limits, the results were qualified as estimated ("J" flag for positive results and "UJ" for non-detect results).

F.4.6 Instrument Calibration and Tuning

Initial and continuing calibrations were reviewed for all NLS analysis reports for all methods. Instrument tuning was reviewed for all VOC and SVOC methods. In general, calibrations were performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. A few chemicals did not meet initial or continuing calibration criteria. These chemicals, in the associated samples, were qualified as estimated ("J" for positive results and "UJ" for non-detect results). Instrument tunes for the VOC and SVOC analyses met the specified frequency in all cases. No data were qualified on this basis.

F.4.7 Analytical Performance Checks

Performance checks such as surrogate recovery and internal standard responses were also reviewed during data validation of the VOC and SVOC analyses. Surrogate percent recoveries were reviewed in the PCB and OC Pesticide analyses. Performance checks for inorganic analyses included Inductively Coupled Plasma (ICP) serial dilution analyses, ICP interference check sample results, and CRDL standard analysis.

Generally, surrogate recoveries were within acceptable limits for all OC Pesticides analyses and most VOC, SVOC, and PCB analyses. Surrogate recoveries were outside acceptance criteria (less than 10 percent) in a limited number of samples. The results for these samples were qualified based on USEPA CLP guidance (USEPA, 1999).

Internal standard performance, which is used to assess the condition of the analytical instrumentation for the VOCs and SVOC analyses, was acceptable for the majority of samples. If an internal standard was outside acceptable limits, the results for chemicals quantitated using the non-compliant internal standard were qualified as estimated ("J" for positive results and "UJ" nor non-detect results) in the associated samples. The chemicals affected by poor internal standard responses are listed specifically in the DVRs in Appendix G.

ICP interference check samples were run at the required frequency. In a limited number of cases, positive or negative interference was noted. Sample results were qualified as estimated ("J" for positive results and "UJ" for non-detect results) as appropriate. ICP serial dilutions were performed periodically to assess potential bias due to interferences from the sample matrix. For selected samples, the results of the serial dilution exceeded the 10 percent acceptance limit. Positive and non-detect results for associated samples were qualified as estimated ("J" or "UJ"). CRDL samples were run frequently to assess the accuracy of the calibration near the reporting limit. Standard results were acceptable in all cases.

RPDs that exceeded 30 percent for aqueous samples and 50 percent for solid samples. No results were rejected based on field duplicate results.

Laboratory duplicate samples were not required to be analyzed for this project with the exception of the MS/MSD duplicates. MS/MSD analyses were performed at a frequency of at least one per 20 samples for all parameter groups. Agreement between the two sample results, expressed as RPD, met the criteria of the analytical methods for the primary methods of analysis (VOC, SVOC, and inorganics) and for other analyses (PCBs, hexavalent chromium, etc.) in most cases. Where the RPDs were greater than the laboratory's corresponding upper control limits, the results were qualified as estimated ("J" flag for positive results and "UJ" for non-detect results).

F.4.6 Instrument Calibration and Tuning

Initial and continuing calibrations were reviewed for all NLS analysis reports for all methods. Instrument tuning was reviewed for all VOC and SVOC methods. In general, calibrations were performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. A few chemicals did not meet initial or continuing calibration criteria. These chemicals, in the associated samples, were qualified as estimated ("J" for positive results and "UJ" for non-detect results). Instrument tunes for the VOC and SVOC analyses met the specified frequency in all cases. No data were qualified on this basis.

F.4.7 Analytical Performance Checks

Performance checks such as surrogate recovery and internal standard responses were also reviewed during data validation of the VOC and SVOC analyses. Surrogate percent recoveries were reviewed in the PCB and OC Pesticide analyses. Performance checks for inorganic analyses included Inductively Coupled Plasma (ICP) serial dilution analyses, ICP interference check sample results, and CRDL standard analysis.

Generally, surrogate recoveries were within acceptable limits for all OC Pesticides analyses and most VOC, SVOC, and PCB analyses. Surrogate recoveries were outside acceptance criteria (less than 10 percent) in a limited number of samples. The results for these samples were qualified based on USEPA CLP guidance (USEPA, 1999).

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F.4.8 Analytical Sensitivity of Results

The quantitation limits conformed to the target quantitation limits in the project QAPP (URS, 2005b), which were established using risk-based DQLs. Analytical dilutions were performed on selected samples based on the concentrations of target compounds. Where dilutions were performed to quantify elevated levels of target compounds (concentrations above the upper calibration standard), the original results were removed from the database and replaced with the dilution results. (Note: the original results for all other chemicals were reported from the initial analysis.) This practice ensured that only quantitative results were available in the database for risk evaluations.

Dilutions were also required on the basis of sample matrix interference. Quantitation limits for diluted samples were raised by a factor equivalent to the dilution factor (i.e., results were reported with elevated reporting limits). These results are still usable for quantitative purposes; however, the elevated reporting limits may prevent conclusive confirmation that the target chemicals of concern are not present at a specific location if the reporting limit is above the associated risk screening level.

Additionally, some results were rejected as a result of the data validation process. Rejected data are not usable for quantitative purposes, but may have some value as qualitative information to the data user to guide further evaluations of the Site and/or ecological conditions.

Results for Tentatively Identified Compounds (TICs) were provided by the laboratory for one group of surface water samples (i.e., high energy sampling event) for both VOC and SVOC analyses. The TIC results, however, were not provided in the laboratory EDD. They were included in the raw data only. The TIC summary forms are provided at the end of the respective DVRs in Appendix G or in the NLS analysis reports in Appendix E. The applicable SDGs for the surface water samples are 94479, 94480, 94481, 94482, and 94483.

F.4.9 Representativeness, Completeness, and Comparability of Results

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter that is dependent upon the proper design of the sampling program and/or proper laboratory protocols. This sampling network was designed to provide data representative of site conditions. Representativeness was satisfied by ensuring that the QAPP was followed, proper sampling techniques were used, proper analytical procedures were followed, and holding times of the samples were not exceeded in the laboratory. The majority of these factors were addressed/reviewed during the data validation process. Evidence of proper sampling techniques was obtained by the review of field logbooks and assessment of field duplicate results. A summary of the logbook review is found in Section F.11. The precision associated with duplicate sample analysis is discussed in Section F.4.5. In general, documentation of appropriate field sampling procedures was complete and field precision was very good in most cases for aqueous and solid matrices.

Data completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount of data expected to be obtained under normal conditions. (See calculation in Section 4.2.4 of the project QAPP.) Valid data is defined as data that are considered usable (i.e., non-rejected results) after the validation process. The amount of expected data refers to the number of measurements planned. The completeness goal (specified in the project QAPP) required that each chemical have a completeness value greater than 95 percent. This goal was obtained for the NLS data sets for all chemicals measured in the groundwater, surface water, soil, and sediment matrices. (Note: Analytical results associated with sample re-analysis were not counted toward the completeness goal.) Some parameter groups had no rejected data

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(e.g., OC Pesticides, PCBs); therefore, the amount of valid data available for use was 100 percent. The data generated by NLS for all chemicals of concern for the RI, therefore, meet the completeness criteria.

Data comparability expresses the confidence with which one data set can be compared to another; in this case, historical data compared to data collected during the 2005 investigation. Comparability is dependent upon the proper design of the sampling program and the use of proper sampling techniques. For the groundwater/aqueous matrices, analytical data collected during the two-year period of sample collection were considered comparable since one analytical laboratory performed the testing and, in general, the same contractor performed the actual field sampling. NLS followed the laboratory-specific SOPs for analysis of all groundwater samples during this time. Analytical data for the solid matrices (soils/sediments) were considered comparable based on the use of the same USEPA reference test methods (SW846) for the analysis of VOCs, SVOCs, metals, etc., and similar data validation protocols (USEPA, 1999; USEPA 2004). Although laboratory QC requirements may have differed slightly between analysis groups, the reference method procedures and validation practices are considered standard for all CLP work and most likely would ensure comparable data for the organic analyses. An in-depth verification of comparability to the historical data set was not conducted for this assessment summary.

F.4.10 Laboratory Flags and Codes

For the organic results, the laboratory used flags (e.g., "[ ]" to mean estimated data; ND to mean a non-detect result) that were not consistent with project requirements. During the data validation process and database management, these flags were updated to reflect the requirements in the project QAPP (URS, 2005b). Where the laboratory used brackets to indicate estimated data between the limit of quantitation (LOQ) and the limit of detection (LOD), the results were retained and a "J" qualifier was used. Where the laboratory used an "ND" code, the results were updated to show the LOQ and a "U" qualifier to indicate a non-detect value. (During the data validation process, where field and laboratory blank contamination was found, the results originally reported as positive values would have been revised to non-detect results when the project sample results were five times less than [or 10 times for common contaminants] the blank concentrations) Updates and adjustments to the laboratory qualifiers to meet project requirements are documented on the printouts of the analysis summary sheets found in each of the DVRs in Appendix G.

F.4.11 Summary of NLS Laboratory Performance

Nearly all the analytical data generated by NLS were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes. Only a few results were rejected because of laboratory QC performance (i.e., spike recoveries) but this did not impact the overall usability of the data set because re-analysis results were available, in general, to replace rejected data.

F.5 ENVIRONMENTAL CHEMISTRY CONSULTING SERVICES (ECCS)

Environmental Chemistry Consulting Service, Inc. (Madison, Wisconsin) performed analyses for the reconnaissance sediment investigations conducted in May and June 2005. Samples were analyzed for PAHs. Data validation was performed on two ECCS reports received for the investigations in accordance with the evaluation program described in Section F.3. The validation included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance,

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F.5.1 Conformance to the Sample Collection Procedures

Sample collection was conducted by URS and procedures were in accordance with collection protocols outlined in the project QAPP (URS, 2005b) Addendum No. 2. Samples were collected in one or two pre-cleaned glass containers (250-mL) for PAH and percent solids analysis. No deviations were noted in the collection practices. Aqueous samples were not required to be submitted to the mobile laboratory.

F.5.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the mobile laboratory's SOP provided in the project QAPP (URS, 2005b), Addendum No. 2. The following parameter groups and test methods were used:

- PAHs by SW846 Method 8270C (modified)
- Percent Solids by Method 160.3 (modified)

The target chemical list is in Section 5.14 of the project QAPP (URS, 2005b) for the reconnaissance survey, but is shown here for clarity:

Acenaphthene	Fluoranthene
Acenaphthylene	Fluorene
Anthracene	Indeno(1,2,3-c,d)pyrene
Benzo(a)anthracene	1-Methylnapthalene
Benzo(a)pyrene	2-Methylnapthalene
Benzo(e)pyrene	Naphthalene
Benzo(k)fluoranthene	Phenanthrene
Benzo(ghi)perylene	Benzo(b)fluoranthene
Chrysene	Pyrene
Dibenzo(a,h)anthracene	

ECCS modified SW846 testing methodology for the PAH analysis to create a Performance-Based Measurement System (PBMS) method capable of meeting DQLs necessary to satisfy the DQOs for the investigation. The modified procedure, which provided quantitative results for the target list of chemicals, included minor changes to the extraction and analysis methods specified by SW846 for the parameter group. The specific differences are described as follows:

- Extraction - Five grams of soil is transferred to a tared glass 20-ml scintillation vial and 5-8 grams of anhydrous sodium sulfate is added. The soil is thoroughly mixed with the sodium sulfate and allowed to dry until the mixture pours like salt. 40 ul of a 2500(base/neutral) ug/ml surrogate standard solution is added to the dried soil. Ten mls of 90/10, dichloromethane/acetone solvent is added to the extraction vial. The vial is shaken for 2 minutes, allowed to sit for 10 minutes, shaken again for 2 minutes, and allowed to settle. 20 ul of a 1000 ug/ml internal standard solution is added to a 2 ml injection vial with a micro-syringe. 0.8 ml of the soil extract is transferred to the GC vial with an Eppendorf pipette and the sample is loaded onto an auto-sampler for GC/MSD analysis.

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- Percent Solids by Method 160.3 (modified)

The target chemical list is in Section 5.14 of the project QAPP (URS, 2005b) for the reconnaissance survey, but is shown here for clarity:

Acenaphthene	Fluoranthene
Acenaphthylene	Fluorene
Anthracene	Indeno(1,2,3-c,d)pyrene
Benzo(a)anthracene	1-Methylnapthalene
Benzo(a)pyrene	2-Methylnapthalene
Benzo(e)pyrene	Naphthalene
Benzo(k)fluoranthene	Phenanthrene
Benzo(ghi)perylene	Benzo(b)fluoranthene
Chrysene	Pyrene
Dibenzo(a,h)anthracene	

ECCS modified SW846 testing methodology for the PAH analysis to create a Performance-Based Measurement System (PBMS) method capable of meeting DQLs necessary to satisfy the DQOs for the investigation. The modified procedure, which provided quantitative results for the target list of chemicals, included minor changes to the extraction and analysis methods specified by SW846 for the parameter group. The specific differences are described as follows:

- Extraction - Five grams of soil is transferred to a tared glass 20-ml scintillation vial and 5-8 grams of anhydrous sodium sulfate is added. The soil is thoroughly mixed with the sodium sulfate and allowed to dry until the mixture pours like salt. 40 ul of a 2500(base/neutral) ug/ml surrogate standard solution is added to the dried soil. Ten mls of 90/10, dichloromethane/acetone solvent is added to the extraction vial. The vial is shaken for 2 minutes, allowed to sit for 10 minutes, shaken again for 2 minutes, and allowed to settle. 20 ul of a 1000 ug/ml internal standard solution is added to a 2 ml injection vial with a micro-syringe. 0.8 ml of the soil extract is transferred to the GC vial with an Eppendorf pipette and the sample is loaded onto an auto-sampler for GC/MSD analysis.

- GC/MSD Analysis - The analytical system consists of a Hewlett-Packard 5890 gas chromatograph with a 30m x 0.25mm, DB-5ms (or equivalent) capillary column interfaced to a Hewlett-Packard 5972 MSD with a Leap CTC A200S auto-sampler. One microliter of standard or extract is injected into the GC/MSD operated in the split-less mode. A Hewlett-Packard Enviroquant chromatography workstation is used for data acquisition and interpretation. Identification of target compounds is done by matching relative retention times and mass spectra of peaks found in samples to those found in a calibration standard using the internal standards as time reference peaks. The internal standards are 1,4-dichlorobenzene-d4. naphthalene-d8 acenaphthene-d10, chrysene-d12, and perylene-d12. The surrogate standard reported was p-terphenyl-d14 for base-neutral compounds. Quantification is performed by the internal standard technique using an eight point standard curve generated from 0.25, 0.5, 1.0,2.0,3.0, 5.0, 10 and 25 ng/ml standards. These levels equate to 0.50, 1.0,2.0,4.0, 6.0, 10, 20 and 50 mg/kg for samples.

The PBMS approach was designed for this investigation to provide results with quicker turnaround time (within 24 hours of sampling) for rapid assessment of sediment conditions. This rapid analysis program allowed a thorough characterization of the type and level of potential impact in the Bay to assess the need for conducting further investigations for fish and sediment. Specific QC practices used for this method are listed in Section F.5.5.

F.5.3 Sample Handling and Chain-of-Custody

Sample handling and COC procedures followed the document procedures in the project QAPP (URS, 2005b). The field team chilled the samples on ice until delivery to the mobile laboratory. The samples were logged in to the laboratory using the mobile laboratory COC form. Copies of the completed forms are provided in Appendix E. The field and mobile laboratory analyst signed and dated these forms to affirm custody transfer. The trailer was secured at all times to maintain samples custody.

F.5.4 Adherence to Sample Holding Times

Holding times for all the project samples and analyses met the requirements of the analytical method (i.e., extraction within 14 days and analysis within 40 days). The samples for PAHs were delivered to the mobile laboratory within two to four hours of sample collection, then samples were either immediately extracted or were placed in a laboratory refrigerator (at 4°C±2°C) until sample preparation could take place. No qualification of mobile laboratory data was necessary on the basis of holding times. All samples were analyzed within 24 hours of sample collection.

F.5.5 Results of Field and Laboratory QC Samples

QC samples provide a measure of the accuracy and precision of the sample data. For this program, accuracy was measured using the results of spiked samples and blanks; and precision was measured by laboratory and field duplicate sample results. Spiked sample results are expressed as recoveries, which demonstrate the relationship between the amount spiked into the sample and the amount measured or "recovered." Spiked samples included MS/MSDs and/or LCSs, which were run at a frequency of one per batch for the PAH analyses.

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for each day of testing. The LCS samples for PAH analysis were spiked with most target chemicals with the exception of 1-methylnaphthalene, 2-methylnaphthalene, and benzo(e)pyrene. The percent recoveries for each LCS sample were within interim laboratory control limits of 75-125 percent. No qualification of results was required for the LCS evaluations. (Note: No

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qualification of data was performed for the three unspiked chemicals [of a total of 19] since initial and continuing calibration standards met laboratory criteria.)

The laboratory performed MS/MSD analyses on a project sample for each day of testing. The project samples for PAHs were spiked similarly to the LCS and included 16 out of 19 target chemicals. The percent recoveries for each spiked sample were within interim laboratory control limits of 75 to 125 percent. No qualification of results was required for the MS/MSD evaluations.

Laboratory Method Blanks

Blank samples provide a measure of accuracy by monitoring chemicals potentially introduced in the field or in the laboratory. Laboratory blanks were analyzed daily by the mobile laboratory per SOP requirements. No equipment blanks, field blanks, or trip blanks were required to be submitted to the mobile laboratory for this investigation. Laboratory blanks for the organic analyses showed no contamination (all results were less than the reporting limit of 0.2 mg/Kg established for the project).

Duplicate Samples

No field duplicate samples were collected for the reconnaissance sampling event due to an oversight by field sampling personnel. Duplicates were required to be collected per the project QAPP (URS, 2005b). Field duplicates measure the variability associated with both the sampling and analytical processes. The evaluation of precision or variability of the sample results for the matrix could not be completely assessed. However, laboratory duplicates in the form of MS/MSD analyses were performed. MS/MSD analyses were performed at a frequency of at least one set of analyses per day. Agreement between the two sample results, expressed as relative percent difference (RPD), met the criteria (less than 30 percent) established by the QAPP (URS, 2005b). It should be noted that the mobile laboratory did not calculate or report RPD values for the MS/MSD analyses. The RPDs were generated and reviewed during the data validation process. The DVR for the mobile laboratory is presented in Appendix G.

F.5.6 Instrument Calibration and Tuning

Initial and continuing calibrations were reviewed during the data validation. In general, calibrations were performed at the designated frequency and met the acceptance limits. All PAH calibration results meet initial or continuing calibration criteria.

Instrument tunes for the PAH analyses also met the specified criteria in all cases. No data were qualified on this basis. The tuning process for mass selective detectors was performed at the time of project start-up and once a day (rather than at 12-hour intervals) as a check for the mass ratio criteria. The primary reason for mass selective detector tuning is to improve comparability of sample-generated mass spectra to computer library spectra created by the NIST when the analysis must identify "non-target compounds" commonly called TICs. This is not mandated when the objective of the analysis is a target chemical analysis that obtains an actual real-time mass spectra library built from initial calibration standards.

F.5.7 Analytical Performance Checks

Performance checks such as surrogate recovery and internal standard performance were also reviewed during data validation of the PAH analyses. Surrogate recoveries were within mobile laboratory interim control limits for all PAH samples.

Internal standard performance, which is used to assess the condition of the analytical instrumentation for the PAH analyses, was evaluated during data validation process. Internal standard values were not outside of laboratory criteria for the data set.

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Internal standard performance, which is used to assess the condition of the analytical instrumentation for the PAH analyses, was evaluated during data validation process. Internal standard values were not outside of laboratory criteria for the data set.

F.5.8 Analytical Sensitivity of Results

In general, the quantitation limits reported conformed to the target quantitation limits required by the project QAPP (URS, 2005b). In addition, ECCS provided method detection limits (MDLs) for all PAH compounds. All MDLs were less than the selected reporting limit indicating that the PBMS method was sensitive enough to measure the compound in a clean matrix. No analytical dilutions were required for the samples for either the May or June sampling events. No samples exceeded the calibration range of the instrument.

F.5.9 Representativeness, Completeness, and Comparability of Results

As previously stated (Section F.4.9), representativeness expresses the degree to which data accurately and precisely represents a parameter variation at a sampling point or an environmental condition and is a qualitative parameter dependent upon sampling program and proper laboratory protocol. The sampling network for the sediment reconnaissance survey was designed to provide data representative of sediment samples collected. Representativeness was satisfied by ensuring that the QAPP (Addendum 2) was followed, proper sampling techniques were used, approved analytical procedure were followed, and holding times of the samples are not exceeded in the laboratory. The majority of these factors were addressed/reviewed during the data validation process. Evidence of proper sampling techniques was obtained by discussions with the field crew and validation of results. The precision associated with MS/MSD sample analysis is discussed in Section F.5.5. In general, field sampling was conducted appropriately and field/laboratory precision was good, indicating that the results for the sediments collected were representative of site conditions.

Also previously discussed, data completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount of data expected to be obtained under normal conditions. (See calculation in Section 4.2.4 of the project QAPP.) Valid data is defined as data that are considered usable (i.e., non-rejected results) after the validation process. The amount of expected data refers to the number of measurements planned. The completeness goal (specified in the project QAPP) required that each chemical have a completeness value greater than 95 percent. This goal was obtained for the ECCS data sets for all chemicals measured in the sediment matrices. There were no rejected data; therefore, all data were valid and the completeness was 100 percent.

Data comparability expresses the confidence with which one data set can be compared to another. Comparability is dependent upon the proper design of the sampling program and that proper sampling techniques were used. Comparability was assessed for the mobile laboratory data set by submitting split samples to a second laboratory performing the conventional test method for PAH analysis (e.g., SW846 Method 8270C). It was not assessed by comparing ECCS sediment results to historical sediment data. Although historical sediment data are available, the goal of the reconnaissance survey was to finalize sample stations to assist in the implementation of a sediment triad study to evaluate sediment toxicity and benthic community structure. A rapid assessment using a modified reference test method helped select appropriate stations to meet schedule requirements.

A comparison was performed of split sample results from ECCS and NLS. This comparison evaluated the accuracy of ECCS results. This comparison indicates that the mobile laboratory results provided data of sufficient quality to screen the sediments for potential PAH impact. The mobile laboratory results for PAHs, therefore, were found to be usable for decision-making purposes and met DQOs. Specific details of the split sample evaluation are provided in Section F.5.11.

F.5.8 Analytical Sensitivity of Results

In general, the quantitation limits reported conformed to the target quantitation limits required by the project QAPP (URS, 2005b). In addition, ECCS provided method detection limits (MDLs) for all PAH compounds. All MDLs were less than the selected reporting limit indicating that the PBMS method was sensitive enough to measure the compound in a clean matrix. No analytical dilutions were required for the samples for either the May or June sampling events. No samples exceeded the calibration range of the instrument.

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F.5.10 Laboratory Qualifiers

The mobile laboratory data did not use or apply flags for the reporting of sediment data. Flags were not required since calibration, surrogate, LCS and MS/MSD results were within laboratory criteria. Flags for non-detect results (e.g., "U") were not used. Instead, the laboratory reported non-detect results with a dashed line ("—"). Also, revisions to results were not needed during the data validation process; therefore, no additional flags were applied by the validation group.

F.5.11 Evaluation of Split-Sample Results (ECCS vs. NLS)

Three sediment samples were split between the mobile laboratory and NLS to assess the accuracy of the PBMS method used for PAH analysis. These sediments include 9A, 13A, and 15C. (Complete sample identifications are shown below.) The on-site laboratory's performance was acceptable for the total PAH analyses since results were similar. There was an overall positive bias for the ECCS results which was acceptable for the reconnaissance sampling since it reflects an over-estimation of the concentrations of target chemicals and is a conservative approach to determining the presence or absence of impact. It should be noted that although the ECCS result for sample "13A" was a non-detect result, the discrepancy is not significant because the mobile laboratory total PAH reporting limit was higher than the total concentration reported by NLS. The project DQOs did not require ECCS to achieve a DQL at the same level as NLS; hence the higher "total" reporting limit. The results of the split sample analyses are as follows (units in mg/Kg dry-weight as "total PAHs"):

Sample ID	ECCS	NLS
NSP-SE-1-13A-0505_20050512_(0-0_5)_NM	2290 U	957
NSP-SE-1-15C-0505_20050512_(0-0_5)_NM	84374	51900
NSP-SE-1-9A-0505_20050510_(0-0_5)_NM	7928	4140

*U=Non-detect result (at the calculated reporting limit for a "total" analysis.

ECCS and NLS also reported results for individual PAH compounds. The comparability of the results for the individual concentrations of PAHs are shown in Table F-3.

F.5.12 Summary of ECCS Laboratory Performance

All analytical data were valid and could be used for decision-making purposes in accordance with the DQOs outlined in the RI/FS Work Plan (URS, 2005a). No data were qualified during the validation process since there were no reported or identified non-conformances of sampling handling or method QC criteria. Although one data point exhibited a negative bias, the overall PAH data set was deemed usable based on the comparability data obtained from split-sample analyses and generated specifically for this investigation.

F.6 SEVERN TRENT LABORATORIES, BURLINGTON, VT

STL Burlington performed fish tissue and sediment chemical analyses for the RI. Data validation was performed on all STL Burlington analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by STL is provided in Sections F.6.1 through F.6.11.

F.5.10 Laboratory Qualifiers

The mobile laboratory data did not use or apply flags for the reporting of sediment data. Flags were not required since calibration, surrogate, LCS and MS/MSD results were within laboratory criteria. Flags for non-detect results (e.g., "U") were not used. Instead, the laboratory reported non-detect results with a dashed line ("—"). Also, revisions to results were not needed during the data validation process; therefore, no additional flags were applied by the validation group.

F.5.11 Evaluation of Split-Sample Results (ECCS vs. NLS)

Three sediment samples were split between the mobile laboratory and NLS to assess the accuracy of the PBMS method used for PAH analysis. These sediments include 9A, 13A, and 15C. (Complete sample identifications are shown below.) The on-site laboratory's performance was acceptable for the total PAH analyses since results were similar. There was an overall positive bias for the ECCS results which was acceptable for the reconnaissance sampling since it reflects an over-estimation of the concentrations of target chemicals and is a conservative approach to determining the presence or absence of impact. It should be noted that although the ECCS result for sample "13A" was a non-detect result, the discrepancy is not significant because the mobile laboratory total PAH reporting limit was higher than the total concentration reported by NLS. The project DQOs did not require ECCS to achieve a DQL at the same level as NLS; hence the higher "total" reporting limit. The results of the split sample analyses are as follows (units in mg/Kg dry-weight as "total PAHs"):

Sample ID	ECCS	NLS
NSP-SE-1-13A-0505_20050512_(0-0_5)_NM	2290 U	957
NSP-SE-1-15C-0505_20050512_(0-0_5)_NM	84374	51900
NSP-SE-1-9A-0505_20050510_(0-0_5)_NM	7928	4140

*U=Non-detect result (at the calculated reporting limit for a "total" analysis.

ECCS and NLS also reported results for individual PAH compounds. The comparability of the results for the individual concentrations of PAHs are shown in Table F-3.

F.5.12 Summary of ECCS Laboratory Performance

All analytical data were valid and could be used for decision-making purposes in accordance with the DQOs outlined in the RI/FS Work Plan (URS, 2005a). No data were qualified during the validation process since there were no reported or identified non-conformances of sampling handling or method QC criteria. Although one data point exhibited a negative bias, the overall PAH data set was deemed usable based on the comparability data obtained from split-sample analyses and generated specifically for this investigation.

F.6 SEVERN TRENT LABORATORIES, BURLINGTON, VT

STL Burlington performed fish tissue and sediment chemical analyses for the RI. Data validation was performed on all STL Burlington analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by STL is provided in Sections F.6.1 through F.6.11.

F.5.10 Laboratory Qualifiers

The mobile laboratory data did not use or apply flags for the reporting of sediment data. Flags were not required since calibration, surrogate, LCS and MS/MSD results were within laboratory criteria. Flags for non-detect results (e.g., "U") were not used. Instead, the laboratory reported non-detect results with a dashed line ("—"). Also, revisions to results were not needed during the data validation process; therefore, no additional flags were applied by the validation group.

F.5.11 Evaluation of Split-Sample Results (ECCS vs. NLS)

Three sediment samples were split between the mobile laboratory and NLS to assess the accuracy of the PBMS method used for PAH analysis. These sediments include 9A, 13A, and 15C. (Complete sample identifications are shown below.) The on-site laboratory's performance was acceptable for the total PAH analyses since results were similar. There was an overall positive bias for the ECCS results which was acceptable for the reconnaissance sampling since it reflects an over-estimation of the concentrations of target chemicals and is a conservative approach to determining the presence or absence of impact. It should be noted that although the ECCS result for sample "13A" was a non-detect result, the discrepancy is not significant because the mobile laboratory total PAH reporting limit was higher than the total concentration reported by NLS. The project DQOs did not require ECCS to achieve a DQL at the same level as NLS; hence the higher "total" reporting limit. The results of the split sample analyses are as follows (units in mg/Kg dry-weight as "total PAHs"):

Sample ID	ECCS	NLS
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*U=Non-detect result (at the calculated reporting limit for a "total" analysis.

ECCS and NLS also reported results for individual PAH compounds. The comparability of the results for the individual concentrations of PAHs are shown in Table F-3.

F.5.12 Summary of ECCS Laboratory Performance

All analytical data were valid and could be used for decision-making purposes in accordance with the DQOs outlined in the RI/FS Work Plan (URS, 2005a). No data were qualified during the validation process since there were no reported or identified non-conformances of sampling handling or method QC criteria. Although one data point exhibited a negative bias, the overall PAH data set was deemed usable based on the comparability data obtained from split-sample analyses and generated specifically for this investigation.

F.6 SEVERN TRENT LABORATORIES, BURLINGTON, VT

STL Burlington performed fish tissue and sediment chemical analyses for the RI. Data validation was performed on all STL Burlington analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by STL is provided in Sections F.6.1 through F.6.11.

F.6.1 Conformance to the Sample Collection Procedures

Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). Sample collection procedures for tissue were in accordance with SOPs provided in the project QAPP (URS, 2005a), Addendum 3.

F.6.2 Conformance to Analytical Methodologies

STL Burlington performed chemical analysis on fish tissue (e.g., SVITREUM-W-1-1) and sediment samples (e.g., NSP-SE-SQT5-0605-A) for the RI. All analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP Addendum No. 3 (URS, 2005b) and included the following parameter groups and test methods:

- PAHs – SW846 Method 8270C (SIM analysis)[5]
- Lipids - Lipids in Tissue[6]
- Acid Volatile Sulfide and Simultaneously Extracted Metals (AVS/SEM)[7]
- Total Organic Carbon (TOC) – Lloyd Kahn Method[8]

- Grain Size – ASTM D422-63 Standard Test Method for Particle-Size Analysis of Soils and/or ASTM E112-96(2004) Standard Test Methods for Determining Average Grain Size[9]
- Percent Solids - ASTM D2216-98. Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass or USEPA CLP OLM04.2/4.3[10].

No deviations were described in the laboratory analysis reports or in the DVRs for the aforementioned methods. No validation was performed or required for the grain size methodology for this project.

F.6.3 Sample Handling and Chain-of-Custody

Sample handling and COC procedures followed the document procedures in the project QAPP (URS, 2005b). The field team placed all samples on ice in a cooler until packaging for shipment to STL Burlington. Containers were checked for adequate labeling, wrapped to prevent breakage, and then packed on ice in a cooler for shipment. Shipment was conducted using commercial couriers. A COC form was completed for each cooler. Copies of the completed forms (after receipt at the laboratory) are provided in Appendix E. Once received, STL Burlington assigned a unique laboratory identification

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[5] Additionally, the STL Burlington used the *SOP for the Determination of Organics in Fish.* SOP IK: ASBP100, Mod1.0 October 1990; ASB E100, Mod1.0, October 1990, USEPA Region 4 Science and Ecosystem Support Division, Analytical Support Branch.

[2] *Determination of Percent Lipid in Tissue.* Geochemical and Environmental Research Group, Texas A&M University College Station, TX. NOAA Technical Memorandum NOS ORCA 130 National Status and Trends Program for Marine Environmental Quality Sampling and Analytical Methods of the National Status and Trends Program Mussel Watch Project: 1993-1996 Update

[7] *Draft Analytical Method for Determination of Acid Volatile Sulfide in Sediment.* (H.E. Allen et al., EPA-821-R-91-100, August 1991).

[8] *Methods of Soil Analysis.* Part 2. Chemical Methods. Science Society of America Book Series Number 5. American Society of Agronomy, Madison, WI. 1982.

[9] *Annual Book of ASTM Standards, Section 4 Construction.* Volume 4.08 Soil and Rock (I).

[10] *Mult-Media, Multi-Concentration SOW for Organic Analytical Service*, USEPA CLP OLM04.2/4.3.

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Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). Sample collection procedures for tissue were in accordance with SOPs provided in the project QAPP (URS, 2005a), Addendum 3.

F.6.2 Conformance to Analytical Methodologies

STL Burlington performed chemical analysis on fish tissue (e.g., SVITREUM-W-1-1) and sediment samples (e.g., NSP-SE-SQT5-0605-A) for the RI. All analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP Addendum No. 3 (URS, 2005b) and included the following parameter groups and test methods:

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F.6.2 Conformance to Analytical Methodologies

STL Burlington performed chemical analysis on fish tissue (e.g., SVITREUM-W-1-1) and sediment samples (e.g., NSP-SE-SQT5-0605-A) for the RI. All analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP Addendum No. 3 (URS, 2005b) and included the following parameter groups and test methods:

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number to each sample. Each sample is also associated with a laboratory SDG. The SDG is the means by which the laboratory identifies and groups samples for reporting purposes.

Several deviations with respect to sample handling and/or custody were noted in the DVRs. These are as follows (noting SDG ID and issue):

- SDG 108059: The laboratory performed AVS/SEM analyses on sample NSP-SE-SQT10-0605-B rather than on sample NSP-SE-SQT10-0605-D, which was requested on the COC. The alternate sample was analyzed because field personnel did not submit a sample for AVS/SEM analysis for sample NSP-SE-SQT10-0605-D.
- SDG 108055: One duplicate (SVITREUM-F-1-DUP1) was included and analyzed by the laboratory in the report that was not listed on the COCs. Samples SVITREUM-W-1-1 and SVITREUM-W-1-3 were included in the laboratory sample ID list; however, they were not analyzed and no results were reported for these two samples.
- SDG 108066: Two field duplicates were analyzed by the laboratory but were not listed on the COC. These samples were MMACROLEPIDOTUM-F11DUP & MMACROLEPIDOTUM-F31DUP).
- SDG 108176: One duplicate (MDOLOMIEUI-W-3-DUP1) was included and analyzed by the laboratory in the report that was not listed on the COC. The laboratory noted that no FedEx shipping tag was recovered for this sample shipment. The COC lists sample NS-TA-MDOLOMIVE-W-3-7 at 1150 that was not received by the laboratory. Instead the laboratory received sample NS-TA-MDOLOMIVE-W-1-8 at 1415. The laboratory was instructed to log the sample as NS-TA-MDOLOMIVE-W-3-7 at 1150.
- SDG 108177: Two duplicates (ANEBULOSIS-W-1-DUP1 and ANEBULOSIS-W-3-DUP1) were included and analyzed by the laboratory in the report but were not listed on the COCs. Samples SVITREUM-W-3-5 and SVITREUM-W-3-6 were included in the laboratory sample ID list; however, they were not analyzed and no results were reported for these two samples. Also, the laboratory incorrectly transcribed the sample ID as ANEBULOSUS-W-1-1 instead of ANEBULOSIS-W-1-1 throughout the report.

Greater detail can be found in the respective DVRs (Appendix G) of the RI report.

Also, to provide consistency for reporting, STL modified the sample identifications for this project as follows: the "NS-TA" and "ANEBU" prefixes were removed from the field name to facilitate the use of commercial data processing systems by the laboratory (i.e., the field ID character length was too long to use as a name).

F.6.4 Adherence to Sample Holding Times

Holding times were met for most project sample analyses with the exception of a set of sediment samples for TOC and tissue samples for PAHs. Affected results were qualified as estimated ("J" flag for positive results and "UJ" for non-detect results). Results associated with analyses performed past recommended hold times may be negatively biased since the chemical of concern may be lost during extended storage. For the AVS/SEM analyses, no results were rejected based on holding time issues. Note: Results for PAH analyses were qualified as estimated based on the hold time criteria for soils (14 days until extraction). The hold time for frozen fish tissue samples for organic analyses is actually "indefinite." Qualification of fish tissue data based on hold times was not required.

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F.6.5 Results of Field and Laboratory QC Samples

STL Burlington analyzed field and laboratory QC samples in accordance with QAPP requirements. The following paragraphs explain the general findings of the QC sample analyses they performed.

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for the PAH, AVS/SEM, and TOC methods in accordance with laboratory-specific SOPs. Percent recoveries and statistical control limits were reported for each LCS spiked compound. Percent recoveries results outside of statistical control limits were flagged by the laboratory and further qualified in the DVR as estimated ("J" flag for positive results and "UJ" for non-detect results), but in general, accuracy was acceptable for all analytical groups.

STL Burlington performed MS/MSD analyses on multiple project samples for PAH, AVS/SEM, and TOC analyses. MS/MSD analyses are not applicable to the lipids analysis. The project samples were spiked with the target chemical list (e.g., all PAH compounds) and the percent recoveries reported for each. Similar to the LCS analyses, percent recoveries and statistical control limits were reported for each MS/MSD compound. Percent recoveries outside of statistical control limits were noted by the laboratory and further qualified in the DVR to show the impact on the analytical results. It should be noted that if the spike concentration was significantly (four times) less than the project sample concentration, the laboratory would not calculate the percent recovery. Qualification of data was not performed in these cases. The DVRs identified acceptable recoveries for most parameter groups and matrices. For the tissue analyses, only a few PAHs (e.g., 2,6-methylnaphthalene in SDG 108177) and SEM results were qualified based on MS/MSD recoveries. For the sediment analyses, only one result (benzo(g,h,i)perylene) was rejected due to MS/MSD recoveries less than 10 percent (NS-TA-MMACROLEPIDOTUM-F-3-8 in SDG 108066). Rejected results are not usable for quantitative purposes per the DQOs established for this project. In general, the accuracy of all analytical methods performed by STL Burlington was acceptable for all analytical groups.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

For the sediment and tissue samples, no field QC samples such as trip blanks, field or equipment blanks were required to be submitted to the laboratory. Laboratory method blanks were required for each analysis and were analyzed at least once per batch in accordance with laboratory SOPs.

Laboratory blanks included method blanks and "tissue equipment blanks" (used to assess any contamination in the equipment for fish tissue homogenization). The results of the laboratory blank analyses for PAHs and lipids showed no contamination. Method blanks for the SEM analyses showed the presence of nickel. TOC was also detected in one method blank for the sediments. When detected, contaminants in the blanks indicated the possibility of false positives of the chemical in the associated project samples. When method blank results were compared to action levels established for each blank contaminant, the result was qualified as non-detect ("U" flag) at the laboratory reporting limit when less than five times the action level.

Duplicate Samples

Field duplicates were collected at a frequency of approximately 1 sample for every ten project samples for sediment samples. No field duplicates were required for the fish tissue (the laboratory prepares method duplicates once received, see below). The results of the field duplicates generally demonstrated good agreement (RPD less than 50 percent) for the majority of parameters and samples. Selected chemicals were qualified as estimated (J/UJ for positive and non-detected results, respectively) based on RPDs that exceeded 50 percent for sediment samples. No results were rejected based on field duplicate results.

F.6.5 Results of Field and Laboratory QC Samples

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Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for the PAH, AVS/SEM, and TOC methods in accordance with laboratory-specific SOPs. Percent recoveries and statistical control limits were reported for each LCS spiked compound. Percent recoveries results outside of statistical control limits were flagged by the laboratory and further qualified in the DVR as estimated ("J" flag for positive results and "UJ" for non-detect results), but in general, accuracy was acceptable for all analytical groups.

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Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

For the sediment and tissue samples, no field QC samples such as trip blanks, field or equipment blanks were required to be submitted to the laboratory. Laboratory method blanks were required for each analysis and were analyzed at least once per batch in accordance with laboratory SOPs.

Laboratory blanks included method blanks and "tissue equipment blanks" (used to assess any contamination in the equipment for fish tissue homogenization). The results of the laboratory blank analyses for PAHs and lipids showed no contamination. Method blanks for the SEM analyses showed the presence of nickel. TOC was also detected in one method blank for the sediments. When detected, contaminants in the blanks indicated the possibility of false positives of the chemical in the associated project samples. When method blank results were compared to action levels established for each blank contaminant, the result was qualified as non-detect ("U" flag) at the laboratory reporting limit when less than five times the action level.

Duplicate Samples

Field duplicates were collected at a frequency of approximately 1 sample for every ten project samples for sediment samples. No field duplicates were required for the fish tissue (the laboratory prepares method duplicates once received, see below). The results of the field duplicates generally demonstrated good agreement (RPD less than 50 percent) for the majority of parameters and samples. Selected chemicals were qualified as estimated (J/UJ for positive and non-detected results, respectively) based on RPDs that exceeded 50 percent for sediment samples. No results were rejected based on field duplicate results.

F.6.5 Results of Field and Laboratory QC Samples

STL Burlington analyzed field and laboratory QC samples in accordance with QAPP requirements. The following paragraphs explain the general findings of the QC sample analyses they performed.

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for the PAH, AVS/SEM, and TOC methods in accordance with laboratory-specific SOPs. Percent recoveries and statistical control limits were reported for each LCS spiked compound. Percent recoveries results outside of statistical control limits were flagged by the laboratory and further qualified in the DVR as estimated ("J" flag for positive results and "UJ" for non-detect results), but in general, accuracy was acceptable for all analytical groups.

STL Burlington performed MS/MSD analyses on multiple project samples for PAH, AVS/SEM, and TOC analyses. MS/MSD analyses are not applicable to the lipids analysis. The project samples were spiked with the target chemical list (e.g., all PAH compounds) and the percent recoveries reported for each. Similar to the LCS analyses, percent recoveries and statistical control limits were reported for each MS/MSD compound. Percent recoveries outside of statistical control limits were noted by the laboratory and further qualified in the DVR to show the impact on the analytical results. It should be noted that if the spike concentration was significantly (four times) less than the project sample concentration, the laboratory would not calculate the percent recovery. Qualification of data was not performed in these cases. The DVRs identified acceptable recoveries for most parameter groups and matrices. For the tissue analyses, only a few PAHs (e.g., 2,6-methylnaphthalene in SDG 108177) and SEM results were qualified based on MS/MSD recoveries. For the sediment analyses, only one result (benzo(g,h,i)perylene) was rejected due to MS/MSD recoveries less than 10 percent (NS-TA-MMACROLEPIDOTUM-F-3-8 in SDG 108066). Rejected results are not usable for quantitative purposes per the DQOs established for this project. In general, the accuracy of all analytical methods performed by STL Burlington was acceptable for all analytical groups.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

For the sediment and tissue samples, no field QC samples such as trip blanks, field or equipment blanks were required to be submitted to the laboratory. Laboratory method blanks were required for each analysis and were analyzed at least once per batch in accordance with laboratory SOPs.

Laboratory blanks included method blanks and "tissue equipment blanks" (used to assess any contamination in the equipment for fish tissue homogenization). The results of the laboratory blank analyses for PAHs and lipids showed no contamination. Method blanks for the SEM analyses showed the presence of nickel. TOC was also detected in one method blank for the sediments. When detected, contaminants in the blanks indicated the possibility of false positives of the chemical in the associated project samples. When method blank results were compared to action levels established for each blank contaminant, the result was qualified as non-detect ("U" flag) at the laboratory reporting limit when less than five times the action level.

Duplicate Samples

Field duplicates were collected at a frequency of approximately 1 sample for every ten project samples for sediment samples. No field duplicates were required for the fish tissue (the laboratory prepares method duplicates once received, see below). The results of the field duplicates generally demonstrated good agreement (RPD less than 50 percent) for the majority of parameters and samples. Selected chemicals were qualified as estimated (J/UJ for positive and non-detected results, respectively) based on RPDs that exceeded 50 percent for sediment samples. No results were rejected based on field duplicate results.

Laboratory duplicate samples were required to be analyzed for this project for the PAH analysis of fish tissue. The laboratory also performed MS/MSD analyses for SEM and TOC, which represents duplicates also. MS/MSD analyses were performed at a frequency of approximately one per 20 samples per parameter group. Agreement between the two sample results for fish tissue, expressed as RPD, met the criteria of the analytical methods. Agreement was also acceptable (less than the laboratory's upper control limit) for most analysis of SEM and TOC analyses. Where the RPDs were greater than the laboratory's corresponding upper control limits, the results were qualified as estimated ("J" flag for positive results and "UJ" for non-detect results). Results flagged "J" or "UJ" due to laboratory imprecision are listed in the DVRs shown in Appendix G.

F.6.6 Instrument Calibration and Tuning

Initial and continuing calibrations and instrument tuning were reviewed for applicable test methods. Instrument tuning was applicable to the PAH method only. In general, calibrations were performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the laboratory SOPs. No chemicals were qualified on the bases of non-conforming initial or continuing calibration criteria. Instrument tunes for the VOC and SVOC analyses met the specified frequency in all cases. No data were qualified on this basis. It should be noted that several PAH results exceeded the concentration of the upper calibration standard and the sample had to be re-analyzed using a dilution. Where results were re-analyzed, the original result was removed from use within the database and the analysis associated with the secondary dilution was kept. The results that were removed were qualified with an "R." (Note: these data were not rejected, but simply "removed from use".)

F.6.7 Analytical Performance Checks

Performance checks such as surrogate recovery and internal standard values were also reviewed during data validation of the PAH fish tissue and sediment analyses. Performance checks for the SEM analyses included Inductively Coupled Plasma (ICP) serial dilution analyses, ICP interference check sample results, and CRDL analysis.

Generally, surrogate recoveries were within acceptable limits for the PAH analyses for both matrices. No results were rejected based on surrogate samples were qualified based on USEPA guidance (USEPA, 1999).

Internal standard performance, which is used to assess the condition of the analytical instrumentation for the PAH analyses, was acceptable for most samples for both matrices. It should be noted that the PAH-SIM analyses includes five surrogate compounds spiked at the time of extraction. Therefore, each surrogate compound must be labeled as an internal standard in the laboratories data processing software to allow utilization of the response of the surrogate compound in the calculation of each target compound. Since quantification for this procedure is based on the isotopic dilution technique, or surrogate corrected quantification, surrogates are internally identified as internal standards and appear on the Form 8. These qualifications can be ignored as the compounds were fortified at extraction rather than immediately prior to analysis leaving only two "true" internal standards (fluorene-d10 and benzo(a)pyrene-d12). The true internal standard values were within laboratory criteria; no qualification of the results was required except in a few cases. If an internal standard was outside acceptable limits (e.g., SVITREUM-F-1-2 in SDG 108055), the laboratory re-analyzed the sample to determine if the original analysis was correct. Typically, the secondary analysis proved similar to the first analysis for internal standard performance, but in some cases, the secondary analysis showed internal acceptable performance. During validation, the results for chemicals quantified using the non-compliant internal standard were qualified as estimated ("J" for positive results and "UJ" nor non-detect results). When the secondary analysis was acceptable, the

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original analysis was removed from use from the database. This process ensured that only results associated with acceptable performance were being used in the data evaluation. The chemicals affected by poor internal standard responses are listed in the DVRs in Appendix G.

ICP interference check samples were run at the required frequency. In a limited number of cases, positive or negative interference was noted. Sample results were qualified as estimated ("J" for positive results and "UJ" nor non-detect results) as appropriate. ICP serial dilutions were performed periodically to assess potential bias due to interferences from the sample matrix.. For selected samples, the results of the serial dilution exceeded the 10 percent acceptance limits. Positive results for associated samples were qualified as estimated ("J").

F.6.8 Analytical Sensitivity of Results

The quantitation limits conformed to the target quantitation limits in the project QAPP (URS, 2005b), which were established using risk-based DQLs. Analytical dilutions were performed on selected samples based on the concentrations of target compounds. Where dilutions were performed to quantify elevated levels of target compounds (concentrations above the upper calibration standard), the original results (flagged "E" by the laboratory) were removed from the database and replaced with the dilution results. (Note: The original results for all other chemicals were reported from the initial analysis.) This practice ensured that only quantitative results were available in the database for risk evaluations.

Dilutions were also required on the basis of sample matrix interference. Quantitation limits for diluted samples were raised by a factor equivalent to the dilution factor (i.e., results were reported with elevated reporting limits). These results are still usable for quantitative purposes; however, the elevated reporting limits may prevent conclusive confirmation that the target chemicals of concern are not present at a specific location if the reporting limit is above the associated risk screening level.

Additionally, some results were rejected as a result of the data validation process. Rejected data are not usable for quantitative purposes, but may have some value as qualitative information to the data user to guide further evaluations of the Site and/or ecological conditions.

STL reported tissue results as a wet-weight value along with the percent solids content so that an evaluation of both wet and dry-weight results could be performed.

During the TOC analysis for SDG 108036, sample NSP-SE-SQT5-0605-D yielded area counts in two replicates that exceeded the area count of the highest calibration standard. However, as the TOC analysis is not amenable to dilution, the result from the analysis is formally presented. The analysis is not amenable to dilution because of the small size of sample used (10 mg). When the area count in the sample is above the area of the high standard, there is no opportunity to weigh a lesser about of sample. The result was qualified as estimated ("J" for positive results).

F.6.9 Representativeness, Completeness, and Comparability of Results

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of an environmental condition. Representativeness is a qualitative parameter that is dependent upon the proper design of the sampling program and proper laboratory protocol. This sampling network was designed to provide data representative of sediment and site ecological conditions. Representativeness was satisfied by ensuring that the QAPP was followed, proper sampling techniques were used, proper analytical procedure were followed, and holding times of the samples were not exceeded in the laboratory. The majority of these factors were addressed/reviewed during the data validation process. Evidence of proper sampling techniques was made by review of field logbooks, discussions with field personnel, and assessment of field duplicate results. A summary of the logbook review is found in Section F.10. The precision associated with duplicate

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sample analysis is discussed in Section F.6.5. In general, documentation of proper field sampling was complete and field precision was good for the sediment matrix.

Data completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount of data expected to be obtained under normal conditions. (See calculation in Section 4.2.4 of the project QAPP [URS, 2005b].) Valid data is defined as data that are considered usable (i.e., non-rejected results) after the validation process. The amount of expected data refers to the number of measurements planned. The completeness goal required that each chemical have a completeness value greater than 95 percent. This goal was obtained for STL Burlington for all chemicals measured in the tissue and sediment matrices. (Note: Analytical results associated with sample re-analysis were not counted toward the completeness goal.) Since there were no rejected data, the amount of valid data available for use was 100 percent. All results from STL for the RI, therefore, are acceptable for completeness.

Data comparability expresses the confidence with which one data set can be compared to another; in this case historical data (1998/99) is compared to data collected during the 2004/2005 investigation. Comparability is dependent upon the proper design of the sampling program, sampling techniques and the use of appropriate laboratory methods to measure the chemical of concern in the matrix.

An in-depth verification of comparability of the fish tissue data was not conducted for this assessment because historic (pre-2004) tissue collection procedures were not reviewed and there is limited information on analytical methodology and validation. It was presumed that sampling would be consistent with USEPA guidance for collection of fish for analysis. Additionally, the analytical method used for the 1998/99 fish analyses was SW846 Method 8310. The method used in 2005 was SW846 Method 8270. Since variations in methodology exist, there is a chance that PAH results may not be comparable barring environmental changes in site conditions. For geophysical analyses, no comparability is applicable since no samples for AVS/SEM and TOC were collected prior to the 2005 investigation.

F.6.10 Laboratory Flags and Codes

For the organic results, the laboratory used several qualifiers (i.e., D, E, J, and U) that were reviewed for applicability to the project reporting requirements. The laboratory "D" qualifier (indicating the result was from a diluted analysis) was acceptable and was retained in the database in all cases. Similarly, the laboratory "U" (non-detect result) and "J" flag (estimated result between the MDL and the laboratory reporting limits was retained in most cases unless revised during the validation process due to non-conformances of QC criteria. The laboratory "E" flag was used to indicate that a result exceeded the concentration of the upper calibration standard. For corrective action, the laboratory re-analyzed the project sample using a dilution and reported both original and diluted analyses. In general, the result flagged "E" was removed from use within the database ("R" qualified) and the diluted result was retained. This process ensured that inaccurate data was not used in the risk evaluations.

For the inorganic results (e.g., SEM), the laboratory used one qualifier (i.e., B) that was not applicable to the reporting of data for this project. The laboratory reported positive concentrations below the reporting limit but above the MDL with a "B" flag. The "B" flag for inorganic analyses may be confused with its use for organic analyses, where it is used to indicate laboratory contamination. Therefore, since the accuracy of concentrations detected below the reporting limit is questionable, the "B" flag was changed to a "J" flag to indicate an estimated value and to be consistent with the organic data in the database. Additionally, the laboratory "U" qualifier was used; it was retained in the database since its use was consistent with data presentation. In all cases, when laboratory qualifiers were adjusted to meet project requirements; this information was noted in the DVRs (Appendix G).

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An in-depth verification of comparability of the fish tissue data was not conducted for this assessment because historic (pre-2004) tissue collection procedures were not reviewed and there is limited information on analytical methodology and validation. It was presumed that sampling would be consistent with USEPA guidance for collection of fish for analysis. Additionally, the analytical method used for the 1998/99 fish analyses was SW846 Method 8310. The method used in 2005 was SW846 Method 8270. Since variations in methodology exist, there is a chance that PAH results may not be comparable barring environmental changes in site conditions. For geophysical analyses, no comparability is applicable since no samples for AVS/SEM and TOC were collected prior to the 2005 investigation.

F.6.10 Laboratory Flags and Codes

For the organic results, the laboratory used several qualifiers (i.e., D, E, J, and U) that were reviewed for applicability to the project reporting requirements. The laboratory "D" qualifier (indicating the result was from a diluted analysis) was acceptable and was retained in the database in all cases. Similarly, the laboratory "U" (non-detect result) and "J" flag (estimated result between the MDL and the laboratory reporting limits was retained in most cases unless revised during the validation process due to non-conformances of QC criteria. The laboratory "E" flag was used to indicate that a result exceeded the concentration of the upper calibration standard. For corrective action, the laboratory re-analyzed the project sample using a dilution and reported both original and diluted analyses. In general, the result flagged "E" was removed from use within the database ("R" qualified) and the diluted result was retained. This process ensured that inaccurate data was not used in the risk evaluations.

For the inorganic results (e.g., SEM), the laboratory used one qualifier (i.e., B) that was not applicable to the reporting of data for this project. The laboratory reported positive concentrations below the reporting limit but above the MDL with a "B" flag. The "B" flag for inorganic analyses may be confused with its use for organic analyses, where it is used to indicate laboratory contamination. Therefore, since the accuracy of concentrations detected below the reporting limit is questionable, the "B" flag was changed to a "J" flag to indicate an estimated value and to be consistent with the organic data in the database. Additionally, the laboratory "U" qualifier was used; it was retained in the database since its use was consistent with data presentation. In all cases, when laboratory qualifiers were adjusted to meet project requirements; this information was noted in the DVRs (Appendix G).

F.6.11 Summary of STL Burlington Laboratory Performance

Overall, the analytical data generated by STL Burlington were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes. Only a few results were rejected because of laboratory QC performance (i.e., re-analyses) but this did not impact the overall usability of the data set.

F.7 SEVERN TRENT LABORATORIES, KNOXVILLE, TN

STL Knoxville performed the soil gas and vapor intrusion analyses for the RI. Data validation was performed on all STL analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by STL is provided in Sections F.7.1 through F.7.11.

F.7.1 Conformance to the Sample Collection Procedures

Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). No deviations were identified with respect to sample custody for the field or laboratory. However, one sample collection deviation was identified that was associated with the initial work performed in March 2005. Vapor probe, V-4, was damaged; therefore no sample could be collected until April 18, 2005. Along with this sample, an outdoor one-hour upwind sample and an indoor 24-hour background air sample were required to be collected since the original samples were not obtained due to field procedural error (i.e., the V-10 vapor probe was sampled using a 24-hour regulator instead of obtaining an instantaneous grab). The re-sampling has the potential to impact the data usability since the cluster of samples was not collected during the same timeframe, thus affecting comparability. A discussion of data usability for the air analyses is presented in the Section F.7.9 and the RI Report (Section 4.5).

F.7.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the laboratory SOP provided in the project QAPP (URS, 2005b) and included the following parameter group and test method:

- VOCs – Compendium Methods TO-14 and TO-15, Determination of Volatile Organic Compounds (VOCs), in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS). USEPA Office of Research and Development, Cincinnati, OH. January 1999.

No deviations were described in the laboratory analysis reports or in the DVRs for the aforementioned methods.

E.7.3 Sample Handling and Chain-of-Custody

Sample handling and COC procedures followed the document procedures in the project QAPP (URS, 2005b). All samples were collected in Summa canisters and shipped to STL Knoxville for analysis. Summa canisters were shipped from the laboratory under negative pressure. Shipment was conducted using commercial couriers. A COC form was completed for each cooler. Copies of the completed forms (after receipt at the laboratory) are provided in Appendix E. Once received, STL assigned a unique

F.6.11 Summary of STL Burlington Laboratory Performance

Overall, the analytical data generated by STL Burlington were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes. Only a few results were rejected because of laboratory QC performance (i.e., re-analyses) but this did not impact the overall usability of the data set.

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- VOCs – Compendium Methods TO-14 and TO-15, Determination of Volatile Organic Compounds (VOCs), in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS). USEPA Office of Research and Development, Cincinnati, OH. January 1999.

No deviations were described in the laboratory analysis reports or in the DVRs for the aforementioned methods.

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Sample handling and COC procedures followed the document procedures in the project QAPP (URS, 2005b). All samples were collected in Summa canisters and shipped to STL Knoxville for analysis. Summa canisters were shipped from the laboratory under negative pressure. Shipment was conducted using commercial couriers. A COC form was completed for each cooler. Copies of the completed forms (after receipt at the laboratory) are provided in Appendix E. Once received, STL assigned a unique

F.6.11 Summary of STL Burlington Laboratory Performance

Overall, the analytical data generated by STL Burlington were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes. Only a few results were rejected because of laboratory QC performance (i.e., re-analyses) but this did not impact the overall usability of the data set.

F.7 SEVERN TRENT LABORATORIES, KNOXVILLE, TN

STL Knoxville performed the soil gas and vapor intrusion analyses for the RI. Data validation was performed on all STL analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by STL is provided in Sections F.7.1 through F.7.11.

F.7.1 Conformance to the Sample Collection Procedures

Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). No deviations were identified with respect to sample custody for the field or laboratory. However, one sample collection deviation was identified that was associated with the initial work performed in March 2005. Vapor probe, V-4, was damaged; therefore no sample could be collected until April 18, 2005. Along with this sample, an outdoor one-hour upwind sample and an indoor 24-hour background air sample were required to be collected since the original samples were not obtained due to field procedural error (i.e., the V-10 vapor probe was sampled using a 24-hour regulator instead of obtaining an instantaneous grab). The re-sampling has the potential to impact the data usability since the cluster of samples was not collected during the same timeframe, thus affecting comparability. A discussion of data usability for the air analyses is presented in the Section F.7.9 and the RI Report (Section 4.5).

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Analyses were performed according to current versions of the laboratory SOP provided in the project QAPP (URS, 2005b) and included the following parameter group and test method:

- VOCs – Compendium Methods TO-14 and TO-15, Determination of Volatile Organic Compounds (VOCs), in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS). USEPA Office of Research and Development, Cincinnati, OH. January 1999.

No deviations were described in the laboratory analysis reports or in the DVRs for the aforementioned methods.

E.7.3 Sample Handling and Chain-of-Custody

Sample handling and COC procedures followed the document procedures in the project QAPP (URS, 2005b). All samples were collected in Summa canisters and shipped to STL Knoxville for analysis. Summa canisters were shipped from the laboratory under negative pressure. Shipment was conducted using commercial couriers. A COC form was completed for each cooler. Copies of the completed forms (after receipt at the laboratory) are provided in Appendix E. Once received, STL assigned a unique

identification number to each sample and an SDG work order. The SDG is the means by which the laboratory identifies and groups samples for reporting purposes.

F.7.4 Adherence to Sample Holding Times

Holding times were met for all project sample analyses. No results were qualified based on holding time issues.

F.7.5 Results of Field and Laboratory QC Samples

STL analyzed field and laboratory QC samples in accordance with QAPP requirements. The following paragraphs explain the general findings of the QC sample analyses they performed.

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for the VOC method in accordance with the laboratory-specific SOP. Percent recoveries and statistical control limits were reported for each LCS spike compound. Percent recoveries results outside of statistical control limits were flagged by the laboratory and further qualified in the DVR as estimated ("J" flag for positive results and "UJ" for non-detect results), but in general, accuracy was acceptable.

MS/MSD are not applicable to the TO15 method; therefore, none were performed.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

Field QC samples such as aqueous trip blanks, equipment blanks, and field blanks are not applicable to the air analysis method. Laboratory method blanks are applicable and were analyzed by STL at the frequency specified in the laboratory's SOP. The results of the laboratory blank analyses for VOCs, revealed no laboratory contamination. No analytical data were required to be qualified based on laboratory method blank results.

Duplicate Samples

One set of field duplicates (e.g., VP-05_20050718_(2-2)_DUP) were collected for the air matrix. The results of the field duplicates generally demonstrated good agreement (RPD less than 50 percent) for the majority of parameters with the exception of toluene. Toluene was detected at concentrations of 1.9 ug/m3 in the parent sample and 0.26 U ug/m3 (non-detect value) in the field duplicate sample. Results were qualified as estimated ("J" for the positive value and "UJ" for the non-detect value). Other positive concentrations of target chemicals (e.g., trichlorofluoromethane) showed good agreement. No results were rejected based on field duplicate results.

Laboratory duplicate samples were not required to be analyzed for this project.

F.7.6 Instrument Calibration and Tuning

Initial and continuing calibrations were reviewed for all STL analysis reports. In general, calibrations were performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. A few chemicals did not meet initial or continuing calibration criteria (e.g., the percent difference for the continuing calibration for toluene in SDG H5G210136). These chemicals, in the associated samples, were qualified as estimated ("J" for positive results and "UJ" for non-detect results). Instrument tunes for the VOC and SVOC analyses met the specified frequency in all cases. No data were qualified on this basis. No data were rejected based on instrument calibration or tuning.

identification number to each sample and an SDG work order. The SDG is the means by which the laboratory identifies and groups samples for reporting purposes.

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MS/MSD are not applicable to the TO15 method; therefore, none were performed.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

Field QC samples such as aqueous trip blanks, equipment blanks, and field blanks are not applicable to the air analysis method. Laboratory method blanks are applicable and were analyzed by STL at the frequency specified in the laboratory's SOP. The results of the laboratory blank analyses for VOCs, revealed no laboratory contamination. No analytical data were required to be qualified based on laboratory method blank results.

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Laboratory duplicate samples were not required to be analyzed for this project.

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MS/MSD are not applicable to the TO15 method; therefore, none were performed.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

Field QC samples such as aqueous trip blanks, equipment blanks, and field blanks are not applicable to the air analysis method. Laboratory method blanks are applicable and were analyzed by STL at the frequency specified in the laboratory's SOP. The results of the laboratory blank analyses for VOCs, revealed no laboratory contamination. No analytical data were required to be qualified based on laboratory method blank results.

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Laboratory duplicate samples were not required to be analyzed for this project.

F.7.6 Instrument Calibration and Tuning

Initial and continuing calibrations were reviewed for all STL analysis reports. In general, calibrations were performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. A few chemicals did not meet initial or continuing calibration criteria (e.g., the percent difference for the continuing calibration for toluene in SDG H5G210136). These chemicals, in the associated samples, were qualified as estimated ("J" for positive results and "UJ" for non-detect results). Instrument tunes for the VOC and SVOC analyses met the specified frequency in all cases. No data were qualified on this basis. No data were rejected based on instrument calibration or tuning.

F.7.7 Analytical Performance Checks

Performance checks such as surrogate recovery and internal standard values were also reviewed during data validation of the VOC analyses. Generally, surrogate recoveries were within acceptable limits for most analyses. Surrogate recoveries were outside acceptance criteria (less than 10 percent) in a limited number of samples (e.g., see SDG H5G210136). As corrective action, the laboratory re-analyzed the samples and reported both sets of data. The results for the original analyses were removed from use in the database, and the second analysis was used.

Internal standard response, which is used to assess the condition of the analytical instrumentation for the VOC analyses, was acceptable for the majority of samples. If an internal standard was outside acceptable limits, the results for chemicals quantitated using the non-compliant internal standard were qualified as estimated ("J" for positive results and "UJ" nor non-detect results) in the associated samples. The chemicals affected by poor internal standard responses can be found in DVRs labeled SDG H5D200132 and H5G210136 in Appendix G.

F.7.8 Analytical Sensitivity of Results

The quantitation limits conformed to the target quantitation limits in the project QAPP (URS, 2005b), No analytical results exceeded the upper calibration standard or were required to be flagged for this issue.

F.7.9 Representativeness, Completeness, and Comparability of Results

As previously stated, representativeness expresses the degree to which data accurately and precisely represent a characteristic of an environmental condition. It is a qualitative parameter that is dependent upon the proper design of the sampling program and proper laboratory protocol. This sampling network was designed to provide data representative of site conditions. Representativeness was satisfied by ensuring that the QAPP was followed, proper sampling techniques were used, proper analytical procedures were followed, and holding times of the samples were not exceeded in the laboratory. The majority of these factors were addressed/reviewed during the data validation process. Evidence of proper sampling techniques was obtained by the review of field logbooks and assessment of field duplicate results. A summary of the logbook review is found in Section F.11. The precision associated with duplicate sample analysis is discussed in Section F.7.5. In general, documentation of proper field sampling was complete and field precision was very good in most cases for the air matrix.

Data completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount of data expected to be obtained under normal conditions. (See calculation in Section 4.2.4 of the project QAPP.) Valid data is defined as data that are considered usable (i.e., non-rejected results) after the validation process. The amount of expected data refers to the number of measurements planned. The completeness goal (specified in the project QAPP) required that each chemical have a completeness value greater than 95 percent. This goal was obtained for the STL data sets for most chemicals measured in the air matrix. (Note: Analytical results associated with sample re-analysis were not counted toward the completeness goal.) There were no rejected data for VOCs; therefore, the amount of valid data available for use was 100 percent. The results for all chemicals of concern for the RI, therefore, are acceptable for completeness.

Data comparability expresses the confidence with which one data set can be compared to another. Comparability is dependent upon the proper design of the sampling program and that proper sampling techniques were used. Since there are no historic data for soil gas and vapor intrusion, comparability is not required to be assessed at this time.

F.7.7 Analytical Performance Checks

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Internal standard response, which is used to assess the condition of the analytical instrumentation for the VOC analyses, was acceptable for the majority of samples. If an internal standard was outside acceptable limits, the results for chemicals quantitated using the non-compliant internal standard were qualified as estimated ("J" for positive results and "UJ" nor non-detect results) in the associated samples. The chemicals affected by poor internal standard responses can be found in DVRs labeled SDG H5D200132 and H5G210136 in Appendix G.

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Data comparability expresses the confidence with which one data set can be compared to another. Comparability is dependent upon the proper design of the sampling program and that proper sampling techniques were used. Since there are no historic data for soil gas and vapor intrusion, comparability is not required to be assessed at this time.

F.7.10 Laboratory Flags and Codes

For the air analyses, the laboratory used only a "U" flag to indicate a non-detect. This flag was consistent with project requirements; therefore, no revision to the database was required. Updates and adjustments to the laboratory qualifiers to meet project requirements are documented on the printouts of the analysis summary sheets found in each of the DVRs in Appendix G.

F.7.11 Summary of STL Knoxville Laboratory Performance

Overall, the analytical data generated by STL Knoxville were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes. Only a few results were rejected because of laboratory QC performance (i.e., re-analyses) but this did not impact the overall usability of the data set since re-analysis results were available for use.

F.8 PACE ANALYTICAL LABORATORIES (PACE), MINNEAPOLIS, MN AND ENCHEM, GREEN BAY, WI

Pace performed PAH analyses of aqueous samples (e.g., JDUP-8HR) and sediment samples (e.g., SQT 7) collected during toxicity testing conducted by LSRI. Pace was a subcontract laboratory to LSRI for this project. Pace also performed tissue analyses (e.g., SQT9-4) for the RI through their network laboratory, EnChem, Green Bay, Wisconsin[11]. Data validation was performed on all analytical reports in accordance with the evaluation program described in Section F.3. Validation included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by Pace and EnChem is provided in Sections F.8.1 through F.8.11.

F.8.1 Conformance to the Sample Collection Procedures

Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). No deviations with respect to sample collection and/or custody were noted in the DVRs. Sample collection procedures for tissue were in accordance with SOPs provided in the project QAPP (URS, 2005a), Addendum 3. An evaluation was not performed of the sample collection by LSRI for the aqueous samples from the toxicity testing.

F.8.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP (URS, 2005b) and included the following parameter groups and test methods:

- PAHs – SW846 Method 8270C (SIM mode for aqueous); Method 3510C (aqueous extraction); and Method 3550B (solid extraction)
- Percent Solids – Multi-Media, Multi-Concentration SOW for Organic Analytical Service, USEPA CLP OLM04.2/4.3.

No deviations were described in the laboratory analysis reports or in the DVRs for these methods.

[11] S-F Laboratories, Inc. was used for sulfide analyses for the bioassays. This laboratory was not included in the DAR evaluation.

F.7.10 Laboratory Flags and Codes

For the air analyses, the laboratory used only a "U" flag to indicate a non-detect. This flag was consistent with project requirements; therefore, no revision to the database was required. Updates and adjustments to the laboratory qualifiers to meet project requirements are documented on the printouts of the analysis summary sheets found in each of the DVRs in Appendix G.

F.7.11 Summary of STL Knoxville Laboratory Performance

Overall, the analytical data generated by STL Knoxville were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes. Only a few results were rejected because of laboratory QC performance (i.e., re-analyses) but this did not impact the overall usability of the data set since re-analysis results were available for use.

F.8 PACE ANALYTICAL LABORATORIES (PACE), MINNEAPOLIS, MN AND ENCHEM, GREEN BAY, WI

Pace performed PAH analyses of aqueous samples (e.g., JDUP-8HR) and sediment samples (e.g., SQT 7) collected during toxicity testing conducted by LSRI. Pace was a subcontract laboratory to LSRI for this project. Pace also performed tissue analyses (e.g., SQT9-4) for the RI through their network laboratory, EnChem, Green Bay, Wisconsin[11]. Data validation was performed on all analytical reports in accordance with the evaluation program described in Section F.3. Validation included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by Pace and EnChem is provided in Sections F.8.1 through F.8.11.

F.8.1 Conformance to the Sample Collection Procedures

Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). No deviations with respect to sample collection and/or custody were noted in the DVRs. Sample collection procedures for tissue were in accordance with SOPs provided in the project QAPP (URS, 2005a), Addendum 3. An evaluation was not performed of the sample collection by LSRI for the aqueous samples from the toxicity testing.

F.8.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP (URS, 2005b) and included the following parameter groups and test methods:

- PAHs – SW846 Method 8270C (SIM mode for aqueous); Method 3510C (aqueous extraction); and Method 3550B (solid extraction)
- Percent Solids – Multi-Media, Multi-Concentration SOW for Organic Analytical Service, USEPA CLP OLM04.2/4.3.

No deviations were described in the laboratory analysis reports or in the DVRs for these methods.

[11] S-F Laboratories, Inc. was used for sulfide analyses for the bioassays. This laboratory was not included in the DAR evaluation.

F.7.10 Laboratory Flags and Codes

For the air analyses, the laboratory used only a "U" flag to indicate a non-detect. This flag was consistent with project requirements; therefore, no revision to the database was required. Updates and adjustments to the laboratory qualifiers to meet project requirements are documented on the printouts of the analysis summary sheets found in each of the DVRs in Appendix G.

F.7.11 Summary of STL Knoxville Laboratory Performance

Overall, the analytical data generated by STL Knoxville were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes. Only a few results were rejected because of laboratory QC performance (i.e., re-analyses) but this did not impact the overall usability of the data set since re-analysis results were available for use.

F.8 PACE ANALYTICAL LABORATORIES (PACE), MINNEAPOLIS, MN AND ENCHEM, GREEN BAY, WI

Pace performed PAH analyses of aqueous samples (e.g., JDUP-8HR) and sediment samples (e.g., SQT 7) collected during toxicity testing conducted by LSRI. Pace was a subcontract laboratory to LSRI for this project. Pace also performed tissue analyses (e.g., SQT9-4) for the RI through their network laboratory, EnChem, Green Bay, Wisconsin[11]. Data validation was performed on all analytical reports in accordance with the evaluation program described in Section F.3. Validation included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by Pace and EnChem is provided in Sections F.8.1 through F.8.11.

F.8.1 Conformance to the Sample Collection Procedures

Sample custody for the laboratory was in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b). No deviations with respect to sample collection and/or custody were noted in the DVRs. Sample collection procedures for tissue were in accordance with SOPs provided in the project QAPP (URS, 2005a), Addendum 3. An evaluation was not performed of the sample collection by LSRI for the aqueous samples from the toxicity testing.

F.8.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP (URS, 2005b) and included the following parameter groups and test methods:

- PAHs – SW846 Method 8270C (SIM mode for aqueous); Method 3510C (aqueous extraction); and Method 3550B (solid extraction)
- Percent Solids – Multi-Media, Multi-Concentration SOW for Organic Analytical Service, USEPA CLP OLM04.2/4.3.

No deviations were described in the laboratory analysis reports or in the DVRs for these methods.

[11] S-F Laboratories, Inc. was used for sulfide analyses for the bioassays. This laboratory was not included in the DAR evaluation.

F.8.3 Sample Handling and Chain-of-Custody

Sample handling and COC procedures followed the document procedures in the project QAPP (URS, 2005b). A COC form was completed for each sample shipment (e.g., LSRI to Pace). Copies of the completed forms, after receipt at the laboratory, are provided in the laboratory analysis reports in Appendix E. Once received, Pace and EnChem assigned a unique laboratory identification number to each sample. Each sample is also associated with a laboratory SDG. The SDG is the means by which the laboratory identifies and groups samples for reporting purposes. The SDGs for the Pace analysis reports are 860987, 862259, 862425, and 862803; the SDGs for the EnChem analysis reports are 864677A and 864677B.

F.8.4 Adherence to Sample Holding Times

Holding times were met for most project sample analyses for both laboratories with the exception of one set of re-analyses for SVOCs for the soil samples (e.g., SQT 10) due to surrogate recoveries outside of laboratory control limits. The re-extraction was performed past the hold time of 14 days. Since the initial analysis results were acceptable regardless of the surrogate exceedances, these results were retained in the database and the re-analysis results were qualified as estimated and removed from use. For the tissue analyses, no results were rejected based on holding time issues. All results, therefore, are usable for quantitative purposes per the DQOs established for this project.

F.6.5 Results of Field and Laboratory QC Samples

Pace/EnChem analyzed field and laboratory QC samples in accordance with QAPP requirements. The following paragraphs explain the general findings of the QC sample analyses they performed.

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for the PAH analyses in accordance with laboratory-specific SOPs. Percent recoveries and statistical control limits were reported for each LCS spike compound. Percent recovery results outside of statistical control limits were flagged by the laboratory and further qualified in the DVR as estimated ("J" flag for positive results and "UJ" for non-detect results). In general, accuracy was acceptable for all analytical groups.

Pace/EnChem performed MS/MSD analyses on multiple project samples for PAHs. The project samples were spiked with the PAH chemical list and percent recoveries reported for each. Percent recoveries outside of statistical control limits were flagged by the laboratory and further qualified in the DVR to show the impact on the analytical results (e.g., J-DAY 14 for Pace SDG862803). In a few cases, insufficient volume (e.g., Pace SDG 862425) was provided to perform MS/MSD analyses. In this situation, the laboratory analyzed an LCS and an LCS duplicate to assess precision. In general, the accuracy of all analytical methods performed by NLS was acceptable for all analytical groups.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

Field QC samples such as trip blanks, equipment blanks, and field blanks were not applicable to the toxicity testing effluents and sediments submitted for analysis. Laboratory QC samples were applicable, and included method blanks and instrument blanks where required. These QC samples were analyzed at least once per batch in accordance with laboratory SOPs. The results of the blank analyses revealed very little laboratory contamination. If a contaminant was detected in the method blank, sample results were compared to action levels established for each blank contaminant (see previous discussions) and the data qualified as non-detect ("U" flag) when less than the action level.

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Duplicate Samples

Field duplicates were collected at a frequency of approximately one sample for every ten project samples for both solid and liquid matrices. The results of the field duplicates generally demonstrated good agreement (RPD less than 30 percent for aqueous samples and less than 50 percent for soil/tissue samples) Selected chemicals were qualified as estimated (J/UJ for positive and non-detected results, respectively). No results were rejected based on field duplicate results.

Laboratory duplicate and MS/MSD samples were analyzed for tissue and aqueous samples, respectively. The laboratory duplicates were prepared by EnChem and showed good precision (RPD less than 50 percent). The precision associated with the MS/MSD analyses was acceptable in most cases. Where the RPDs were greater than the laboratory's corresponding upper control limits, the results were qualified as estimated ("J" flag for positive results and "UJ" for non-detect results).

F.8.6 Instrument Calibration and Tuning

Initial and continuing calibrations were reviewed for all Pace/EnChem analysis reports. In general, calibrations were performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. A few chemicals (e.g., benzo(a)pyrene in SDG 862803) did not meet initial or continuing calibration criteria. These chemicals, in the associated samples, were qualified as estimated ("J" for positive results and "UJ" for non-detect results). Instrument tunes for the PAH analyses met the specified frequency in all cases. No data were qualified on this basis.

F.8.7 Analytical Performance Checks

Performance checks such as surrogate recovery and internal standard responses were reviewed during data validation of the PAH analyses. Surrogate recoveries were within acceptable limits for most PAH analyses. Surrogate recoveries were outside acceptance criteria (less than 10 percent) in a limited number of samples (e.g, sample SQT10-4 in SDG 864677). The results for these samples were qualified based on USEPA guidance (USEPA, 1999). The chemicals affected by surrogate recoveries outside of laboratory limits are listed in the DVRs in Appendix G.

Internal standard response, which is used to assess the condition of the analytical instrumentation for the PAH analyses, was acceptable in all tissue and sediment samples. No qualification of data was required.

F.8.8 Analytical Sensitivity of Results

The quantitation limits conformed to the target quantitation limits in the project QAPP (URS, 2005b), which were established using risk-based DQLs. Analytical dilutions were performed on selected samples due to concentrations of target compounds. Where re-analyses were performed to quantify elevated target compound concentrations (e.g., concentrations above the upper calibration standard), the original results were removed from the database and replaced with the re-analysis results. (Note: The original results for all other chemicals were reported from the initial analysis.) This practice ensured that only quantitative results were available in the database for risk evaluations.

F.8.9 Representativeness, Completeness, and Comparability of Results

Representativeness expresses the degree to which data accurately and precisely represents an environmental condition. It is a qualitative parameter that is dependent upon the proper design of the sampling program and proper laboratory protocol. The sampling program ensured that PAH data were representative for the sediments and fish tissue tested. Representativeness was also satisfied by ensuring that the QAPP was

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Laboratory duplicate and MS/MSD samples were analyzed for tissue and aqueous samples, respectively. The laboratory duplicates were prepared by EnChem and showed good precision (RPD less than 50 percent). The precision associated with the MS/MSD analyses was acceptable in most cases. Where the RPDs were greater than the laboratory's corresponding upper control limits, the results were qualified as estimated ("J" flag for positive results and "UJ" for non-detect results).

F.8.6 Instrument Calibration and Tuning

Initial and continuing calibrations were reviewed for all Pace/EnChem analysis reports. In general, calibrations were performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. A few chemicals (e.g., benzo(a)pyrene in SDG 862803) did not meet initial or continuing calibration criteria. These chemicals, in the associated samples, were qualified as estimated ("J" for positive results and "UJ" for non-detect results). Instrument tunes for the PAH analyses met the specified frequency in all cases. No data were qualified on this basis.

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Internal standard response, which is used to assess the condition of the analytical instrumentation for the PAH analyses, was acceptable in all tissue and sediment samples. No qualification of data was required.

F.8.8 Analytical Sensitivity of Results

The quantitation limits conformed to the target quantitation limits in the project QAPP (URS, 2005b), which were established using risk-based DQLs. Analytical dilutions were performed on selected samples due to concentrations of target compounds. Where re-analyses were performed to quantify elevated target compound concentrations (e.g., concentrations above the upper calibration standard), the original results were removed from the database and replaced with the re-analysis results. (Note: The original results for all other chemicals were reported from the initial analysis.) This practice ensured that only quantitative results were available in the database for risk evaluations.

F.8.9 Representativeness, Completeness, and Comparability of Results

Representativeness expresses the degree to which data accurately and precisely represents an environmental condition. It is a qualitative parameter that is dependent upon the proper design of the sampling program and proper laboratory protocol. The sampling program ensured that PAH data were representative for the sediments and fish tissue tested. Representativeness was also satisfied by ensuring that the QAPP was

followed, proper sampling techniques were used, proper analytical procedure were followed, and holding times of the samples were not exceeded in the laboratory. The majority of these factors were addressed/reviewed during the data validation process. The precision associated with duplicate sample analysis is discussed in Section F.8.5.

Data completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount of data expected to be obtained under normal conditions. (See calculation in Section 4.2.4 of the project QAPP.) Valid data is defined as data that are considered usable (i.e., non-rejected results) after the validation process. The amount of expected data refers to the number of measurements planned. The completeness goal (specified in the project QAPP) required that each chemical have a completeness value greater than 95 percent. This goal was obtained for the Pace/EnChem data sets for the PAH results for tissue. (Note: All non-detect PAH results except naphthalene were rejected for sample SQT10-4, but this still allowed completeness to be greater than 95 percent). A completeness goal was not established for the toxicity testing effluent waters. However, since no analytical results were rejected during the validation, the completeness value would be 100 percent.

An in-depth verification of comparability of the fish tissue data was not conducted for this assessment because historic tissue collection procedures (pre-2004) were not reviewed and there is limited information on analytical methodology and validation. It was presumed that sampling would be consistent with reference guidance for collection of fish tissue for analysis, as well as analytical methodology; however it was identified that PAHs were measured in fish tissue using SW846 Method 8310 using Wisconsin Industrial Hygiene. The method used by EnChem and STL Burlington for the 2004/2005 tissue was SW846 Method 8270. Since variations in methodology exist, there is a chance that PAH results may not be comparable barring environmental changes in site conditions. For the toxicity testing effluents, no comparability is applicable since bioassay effluent samples were not collected prior to the 2005 investigation.

F.8.10 Laboratory Flags and Codes

PACE and EnChem used various flags for the tissue analyses that were not consistent with project data reporting requirements. During the data validation process and database management, these flags were updated to reflect the requirements in the project QAPP (URS, 2005b). A "<" flag was used by the laboratory for non-detect results. The "<" qualifiers were replaced with a "U" for non-detect results. A "Q" flag was used by the laboratory to indicate results that were greater than the MDL but below the reporting limits (RL). For consistency, these were changed to a "J" to indicate estimated data. A "B" qualifier was used to indicate method blank contamination. The "B" qualifier was removed if the sample concentration was greater than five times the blank concentration, or it was revised to a "U" if sample concentration was less than five times the blank concentration. A "&" qualifier was used to indicate LCS percent recovery outside control limits. A "*" qualifier was used when the LCS relative percent difference (RPD) exceeded acceptance criteria. The "&" and "*" qualifiers were replaced with a "J" for positive results or "UJ" for non-detect results where applicable. Updates and adjustments to the laboratory qualifiers to meet project requirements are documented on the printouts of the analysis summary sheets found in each of the DVRs in Appendix G.

F.8.11 Summary of Pace/EnChem Laboratory Performance

Overall, the analytical data generated by Pace/EnChem were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes.

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F.8.11 Summary of Pace/EnChem Laboratory Performance

Overall, the analytical data generated by Pace/EnChem were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes.

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An in-depth verification of comparability of the fish tissue data was not conducted for this assessment because historic tissue collection procedures (pre-2004) were not reviewed and there is limited information on analytical methodology and validation. It was presumed that sampling would be consistent with reference guidance for collection of fish tissue for analysis, as well as analytical methodology; however it was identified that PAHs were measured in fish tissue using SW846 Method 8310 using Wisconsin Industrial Hygiene. The method used by EnChem and STL Burlington for the 2004/2005 tissue was SW846 Method 8270. Since variations in methodology exist, there is a chance that PAH results may not be comparable barring environmental changes in site conditions. For the toxicity testing effluents, no comparability is applicable since bioassay effluent samples were not collected prior to the 2005 investigation.

F.8.10 Laboratory Flags and Codes

PACE and EnChem used various flags for the tissue analyses that were not consistent with project data reporting requirements. During the data validation process and database management, these flags were updated to reflect the requirements in the project QAPP (URS, 2005b). A "<" flag was used by the laboratory for non-detect results. The "<" qualifiers were replaced with a "U" for non-detect results. A "Q" flag was used by the laboratory to indicate results that were greater than the MDL but below the reporting limits (RL). For consistency, these were changed to a "J" to indicate estimated data. A "B" qualifier was used to indicate method blank contamination. The "B" qualifier was removed if the sample concentration was greater than five times the blank concentration, or it was revised to a "U" if sample concentration was less than five times the blank concentration. A "&" qualifier was used to indicate LCS percent recovery outside control limits. A "*" qualifier was used when the LCS relative percent difference (RPD) exceeded acceptance criteria. The "&" and "*" qualifiers were replaced with a "J" for positive results or "UJ" for non-detect results where applicable. Updates and adjustments to the laboratory qualifiers to meet project requirements are documented on the printouts of the analysis summary sheets found in each of the DVRs in Appendix G.

F.8.11 Summary of Pace/EnChem Laboratory Performance

Overall, the analytical data generated by Pace/EnChem were valid and could be used with confidence for decision-making. Those data points indicated with a "J" qualifier should be considered estimated because of non-conformance with criteria established in the analytical methods or USEPA validation protocols. Those data points qualified with an "R" are rejected and should not be used for quantitative purposes.

Only a few results were rejected because of laboratory QC performance issues (i.e., surrogate recovery) but this did not impact the overall usability of the data set.

F.9 TELEDYNE BROWN ENGINEERING (TBE), KNOXVILLE, TN

TBE performed the radio-chemistry analyses for ^{210}Pb and ^{136}Cs age-dating of sediment cores for the RI. Data validation was performed on all TBE analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by TBE is provided in Sections F.9.1 through F.9.11.

F.9.1 Conformance to the Sample Collection Procedures

Sample custody and collection procedures were in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b), Addendum No. 3. No deviations with respect to sample collection and/or custody were noted in the analysis reports or DVRs (Appendix G).

F.9.2 Conformance to Analytical Methodologies

Analyses were performed according to current versions of the laboratory SOPs provided in the project QAPP Addendum No. 3 (URS, 2005b), and included the following parameter groups and test methods:

- PB-210 and CS-137 – TBE SOP. "Gamma-Emitting Radioisotope Analysis, No. TBE 2007" and *Prescribed Procedures for Measurement of Radioactivity in Drinking Water,* EPA 600/4-80-032. August 1980
- Percent Solids – EPA Method 160.3 (modified)

No deviations were described in the laboratory analysis reports or in the DVRs for the aforementioned methods. The data validation was conducted using the following USEPA guidance: "Routine Validation of Gamma Spectroscopy Data," ER-SOP15.06, 7/20/00. Results were reported in dry-weight per QAPP requirements.

E.9.3 Sample Handling and Chain-of-Custody

Sample handling and COC procedures followed the document procedures in the project QAPP Addendum No. 3 (URS, 2005b). The field team placed all sample on ice in a cooler until packaging for shipment to TBE. Containers were checked for adequate labeling, wrapped to prevent breakage, and then packed on ice in a cooler for shipment. Shipment was conducted using commercial couriers. A COC form was completed for each cooler. Copies of the completed forms (after receipt at TBE) are provided in Appendix E. Once received, TBE assigned a unique laboratory identification number to each sample (i.e., SDG). The SDGs for TBE analysis reports are L25881, L25935, and L25936.

F.9.4 Adherence to Sample Holding Times

Holding times were met for all project sample analyses. Holding time for gamma spectroscopy is 6 months. No data were required to be qualified due to missed holding times.

F.9.5 Results of Field and Laboratory QC Samples

TBE analyzed laboratory QC samples in accordance with QAPP requirements. However, field QC samples were not collected (or designated on the COC). The following paragraphs explain the general findings from review of QC sample analyses.

Only a few results were rejected because of laboratory QC performance issues (i.e., surrogate recovery) but this did not impact the overall usability of the data set.

F.9 TELEDYNE BROWN ENGINEERING (TBE), KNOXVILLE, TN

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Only a few results were rejected because of laboratory QC performance issues (i.e., surrogate recovery) but this did not impact the overall usability of the data set.

F.9 TELEDYNE BROWN ENGINEERING (TBE), KNOXVILLE, TN

TBE performed the radio-chemistry analyses for ^{210}Pb and ^{136}Cs age-dating of sediment cores for the RI. Data validation was performed on all TBE analytical reports in accordance with the evaluation program described in Section F.3. This included a comprehensive review of the laboratory analysis reports for completeness, QC results, sample handling, hold time compliance, accuracy, precision, and reported detection limits. A summary of the usability of the data generated by TBE is provided in Sections F.9.1 through F.9.11.

F.9.1 Conformance to the Sample Collection Procedures

Sample custody and collection procedures were in accordance with the FSP (URS, 2005a) and the project QAPP (URS, 2005b), Addendum No. 3. No deviations with respect to sample collection and/or custody were noted in the analysis reports or DVRs (Appendix G).

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Sample handling and COC procedures followed the document procedures in the project QAPP Addendum No. 3 (URS, 2005b). The field team placed all sample on ice in a cooler until packaging for shipment to TBE. Containers were checked for adequate labeling, wrapped to prevent breakage, and then packed on ice in a cooler for shipment. Shipment was conducted using commercial couriers. A COC form was completed for each cooler. Copies of the completed forms (after receipt at TBE) are provided in Appendix E. Once received, TBE assigned a unique laboratory identification number to each sample (i.e., SDG). The SDGs for TBE analysis reports are L25881, L25935, and L25936.

F.9.4 Adherence to Sample Holding Times

Holding times were met for all project sample analyses. Holding time for gamma spectroscopy is 6 months. No data were required to be qualified due to missed holding times.

F.9.5 Results of Field and Laboratory QC Samples

TBE analyzed laboratory QC samples in accordance with QAPP requirements. However, field QC samples were not collected (or designated on the COC). The following paragraphs explain the general findings from review of QC sample analyses.

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for all methods in accordance with its laboratory-specific SOP. Percent recoveries and statistical control limits were reported for each compound. No results were flagged by the laboratory based on LCS results, indicating that the accuracy of the measurements was acceptable. For MS/MSD analyses, field personnel did not designate a sample for MS/MSD analysis on the COC, nor did the laboratory select a project sample for internal MS/MSD analyses. Due to this oversight, no MS/MSD analyses were performed. Assessment of the accuracy of the spectroscopy measurement on the sediment matrix could not be determined.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

No field QC samples such as equipment blanks, field blanks, etc. were required to be collected for the sediment age-dating work. Laboratory method blanks were required to be analyzed. Laboratory blanks included method blanks and calibration blanks that were analyzed at the frequency specified in the laboratory's SOPs. The results of the laboratory blank analyses showed no contamination. The presence of a radionuclide in a blank would indicate the possibility of false positives in the associated project samples.

Duplicate Samples

Field duplicates were required to be collected at a frequency of approximately one sample for every ten project samples per QAPP requirements (URS, 2005b). None were collected due to a field sampling oversight. Assessment of sampling precision could not be determined for the age-dating of the core samples.

Per project requirements MS/MSD analyses were required to be performed to assess matrix and method precision. Similar to the situation for field duplicates, no MS/MSD analyses were performed; however, laboratory duplicate analyses (analysis of two sub-samples from the sample container) were performed. (These analyses were not required for this project but were performed by TBE for internal precision information.) Per summaries in the DVRs, laboratory duplicates showed agreement between sample results, and met laboratory criteria for RPDs for the analytical method. No results were required to be qualified based on laboratory duplicate results.

F.9.6 Instrument Calibration and Tuning

Instrument performance and background checks were reviewed for all TBE analysis reports. In general, verification of activity for instruments was performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. No data were qualified on this basis.

F.9.7 Analytical Performance Checks

Performance checks such as LCS recovery and method duplicates were also reviewed during data validation. LCS recoveries were acceptable for all project sample analyses and the precision of method duplicate runs were below the applicable laboratory control limits. No data were qualified on this basis.

F.9.8 Analytical Sensitivity of Results

All activity concentrations reported below the minimum detectable concentration (MDC), including negative results, were qualified as "U by the laboratory. Activity concentrations above the MDC were reported unqualified (i.e., no flag). Diluted analyses were not performed and are typically not applicable to spectroscopy analysis. No re-analyses were required for the sediment samples due to instrument performance or sample matrix issues. Results were corrected for moisture content and reported in units of

Laboratory Control Samples and Matrix Spike/Matrix Spike Duplicates

The laboratory performed LCS analyses for all methods in accordance with its laboratory-specific SOP. Percent recoveries and statistical control limits were reported for each compound. No results were flagged by the laboratory based on LCS results, indicating that the accuracy of the measurements was acceptable. For MS/MSD analyses, field personnel did not designate a sample for MS/MSD analysis on the COC, nor did the laboratory select a project sample for internal MS/MSD analyses. Due to this oversight, no MS/MSD analyses were performed. Assessment of the accuracy of the spectroscopy measurement on the sediment matrix could not be determined.

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No field QC samples such as equipment blanks, field blanks, etc. were required to be collected for the sediment age-dating work. Laboratory method blanks were required to be analyzed. Laboratory blanks included method blanks and calibration blanks that were analyzed at the frequency specified in the laboratory's SOPs. The results of the laboratory blank analyses showed no contamination. The presence of a radionuclide in a blank would indicate the possibility of false positives in the associated project samples.

Duplicate Samples

Field duplicates were required to be collected at a frequency of approximately one sample for every ten project samples per QAPP requirements (URS, 2005b). None were collected due to a field sampling oversight. Assessment of sampling precision could not be determined for the age-dating of the core samples.

Per project requirements MS/MSD analyses were required to be performed to assess matrix and method precision. Similar to the situation for field duplicates, no MS/MSD analyses were performed; however, laboratory duplicate analyses (analysis of two sub-samples from the sample container) were performed. (These analyses were not required for this project but were performed by TBE for internal precision information.) Per summaries in the DVRs, laboratory duplicates showed agreement between sample results, and met laboratory criteria for RPDs for the analytical method. No results were required to be qualified based on laboratory duplicate results.

F.9.6 Instrument Calibration and Tuning

Instrument performance and background checks were reviewed for all TBE analysis reports. In general, verification of activity for instruments was performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. No data were qualified on this basis.

F.9.7 Analytical Performance Checks

Performance checks such as LCS recovery and method duplicates were also reviewed during data validation. LCS recoveries were acceptable for all project sample analyses and the precision of method *duplicate runs were below the applicable laboratory control limits. No data were qualified on this basis.*

F.9.8 Analytical Sensitivity of Results

All activity concentrations reported below the minimum detectable concentration (MDC), including negative results, were qualified as "U by the laboratory. Activity concentrations above the MDC were reported unqualified (i.e., no flag). Diluted analyses were not performed and are typically not applicable to spectroscopy analysis. No re-analyses were required for the sediment samples due to instrument performance or sample matrix issues. Results were corrected for moisture content and reported in units of

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The laboratory performed LCS analyses for all methods in accordance with its laboratory-specific SOP. Percent recoveries and statistical control limits were reported for each compound. No results were flagged by the laboratory based on LCS results, indicating that the accuracy of the measurements was acceptable. For MS/MSD analyses, field personnel did not designate a sample for MS/MSD analysis on the COC, nor did the laboratory select a project sample for internal MS/MSD analyses. Due to this oversight, no MS/MSD analyses were performed. Assessment of the accuracy of the spectroscopy measurement on the sediment matrix could not be determined.

Method Blanks, Equipment Blanks, Field Blanks, and Trip Blanks

No field QC samples such as equipment blanks, field blanks, etc. were required to be collected for the sediment age-dating work. Laboratory method blanks were required to be analyzed. Laboratory blanks included method blanks and calibration blanks that were analyzed at the frequency specified in the laboratory's SOPs. The results of the laboratory blank analyses showed no contamination. The presence of a radionuclide in a blank would indicate the possibility of false positives in the associated project samples.

Duplicate Samples

Field duplicates were required to be collected at a frequency of approximately one sample for every ten project samples per QAPP requirements (URS, 2005b). None were collected due to a field sampling oversight. Assessment of sampling precision could not be determined for the age-dating of the core samples.

Per project requirements MS/MSD analyses were required to be performed to assess matrix and method precision. Similar to the situation for field duplicates, no MS/MSD analyses were performed; however, laboratory duplicate analyses (analysis of two sub-samples from the sample container) were performed. (These analyses were not required for this project but were performed by TBE for internal precision information.) Per summaries in the DVRs, laboratory duplicates showed agreement between sample results, and met laboratory criteria for RPDs for the analytical method. No results were required to be qualified based on laboratory duplicate results.

F.9.6 Instrument Calibration and Tuning

Instrument performance and background checks were reviewed for all TBE analysis reports. In general, verification of activity for instruments was performed at the designated frequency and met the laboratory acceptance limits/criteria specified in the SOP. No data were qualified on this basis.

F.9.7 Analytical Performance Checks

Performance checks such as LCS recovery and method duplicates were also reviewed during data validation. LCS recoveries were acceptable for all project sample analyses and the precision of method duplicate runs were below the applicable laboratory control limits. No data were qualified on this basis.

F.9.8 Analytical Sensitivity of Results

All activity concentrations reported below the minimum detectable concentration (MDC), including negative results, were qualified as "U by the laboratory. Activity concentrations above the MDC were reported unqualified (i.e., no flag). Diluted analyses were not performed and are typically not applicable to spectroscopy analysis. No re-analyses were required for the sediment samples due to instrument performance or sample matrix issues. Results were corrected for moisture content and reported in units of

pCi/g. The sensitivity was acceptable for the analyses based on information presented in the DVRs (Appendix G).

F.9.9 Representativeness, Completeness, and Comparability of Results

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is a qualitative parameter that is dependent upon the proper design of the sampling program and proper laboratory protocol. This sampling network was designed to provide data representative of site conditions. Representativeness was satisfied by ensuring that the QAPP was followed, proper sampling techniques were used, proper analytical procedures were followed, and holding times of the samples are not exceeded in the laboratory. No deviations were documented by the field personnel for sampling and proper analytical procedures were followed during analysis. Therefore, the results are expected to be representative of the Site conditions for the measurements performed.

Data completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount of data expected to be obtained under normal conditions. (See calculation in Section 4.2.4 of the project QAPP.) Valid data is defined as data that are considered usable (i.e., non-rejected results) after the validation process. The amount of expected data refers to the number of measurements planned. The completeness goal (specified in the project QAPP) required that each chemical have a completeness value greater than 95 percent. This goal was obtained for the TBE data sets for both ^{210}Pb and ^{136}Cs as measured in the sediment. No results were rejected. All results for the RI, therefore, are acceptable for completeness. The completeness was 100 percent.

Data comparability expresses the confidence with which one data set can be compared to another. Comparability is dependent upon the proper design of the sampling program and that proper sampling techniques were used. Comparability was not assessed for the TBE results since historical sediment data was not generated.

F.9.10 Laboratory Flags and Codes

The laboratory used flags (e.g., "U," "+," etc.) to indicate to the data user information regarding the accuracy of the reported data. A "U" flag indicated non-detect data and was consistent with project reporting requirements. A "+" flag indicated an activity concentration that exceeded the MDC and 3 sigma for peak identification for gamma measurement only. A "Yes" or "No" flag indicated the presence or absence of the peak, respectively, for the gamma measurement. The "+" and "Yes or No" flags were not present in the electronic database; therefore, no revision of flags were required during the data validation process and database management.

F.9.11 Summary of TBE Laboratory Performance

The analytical data generated by TBE were valid and could be used with confidence for decision-making. No analytical data were required to be qualified as estimated ("J" qualifier) or rejected ("R" qualified) as a result of the data validation. Laboratory QC performance (blank, standard, and LCS) analyses were acceptable for all project samples. Assessment of sampling precision could not be determined for the age-dating of the core samples since field duplicates were not collected; however, laboratory precision, measured by the analysis of laboratory duplicates, was acceptable.

F.10 FIELD AND LABORATORY AUDITS

On-site field and laboratory audits were not conducted during the RI; however, a technical system review of the RI field logbooks was performed to assess completeness and accuracy of documentation supporting

pCi/g. The sensitivity was acceptable for the analyses based on information presented in the DVRs (Appendix G).

F.9.9 Representativeness, Completeness, and Comparability of Results

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is a qualitative parameter that is dependent upon the proper design of the sampling program and proper laboratory protocol. This sampling network was designed to provide data representative of site conditions. Representativeness was satisfied by ensuring that the QAPP was followed, proper sampling techniques were used, proper analytical procedures were followed, and holding times of the samples are not exceeded in the laboratory. No deviations were documented by the field personnel for sampling and proper analytical procedures were followed during analysis. Therefore, the results are expected to be representative of the Site conditions for the measurements performed.

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F.9.11 Summary of TBE Laboratory Performance

The analytical data generated by TBE were valid and could be used with confidence for decision-making. No analytical data were required to be qualified as estimated ("J" qualifier) or rejected ("R" qualified) as a result of the data validation. Laboratory QC performance (blank, standard, and LCS) analyses were acceptable for all project samples. Assessment of sampling precision could not be determined for the age-dating of the core samples since field duplicates were not collected; however, laboratory precision, measured by the analysis of laboratory duplicates, was acceptable.

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F.9.11 Summary of TBE Laboratory Performance

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F.10 FIELD AND LABORATORY AUDITS

On-site field and laboratory audits were not conducted during the RI; however, a technical system review of the RI field logbooks was performed to assess completeness and accuracy of documentation supporting

the RI investigations. The technical review was also performed to determine whether information documented in the field logbooks was compliant with the record-keeping requirements specified in the field SOPs (Numbers 100 through 300) found in the FSP (URS, 2005a). The project SOPs require recording field observations, technical data, and health & safety practices that directly affect the field task being conducted. Field log books also are intended to provide sufficient data and observations to enable reconstruction of events that occur while performing field activities. As such, all entries are to be as factual, detailed, and descriptive as appropriate so that a particular situation can be reconstructed without reliance on the author's memory. Field log books are also used to compare and check other field documents.

Eight logbooks were provided for the technical review. The following three logbooks and sections (dated entries) were evaluated: 1) Kreher Park Test Pit/Surface Soil (6/6-6/16/05); 2) Round 2 Vapor Probes/Diffusion Bag Sampling (7/18-7/19); and 3) Supplemental Test Pit (10/31-11/04).

The technical review was accomplished using a checklist. The checklist itemizes the criteria used for the review, and lists associated examples of acceptable practices or alternatively, examples of missing information and records. Generally, deficiencies were minor (i.e., those that do not impact the final evidence file for the project significantly) but several deficiencies were considered major (i.e., those that impact the final evidence file since critical data are not present that may be needed to support the findings of the investigation). An example of a minor deficiency was the lack of records to state that field equipment were being decontaminated An example of a major deficiency was the lack of records for calibration of field meters. The completed checklist and findings are provided in Attachment F-1.

F.11 OVERALL SUMMARY OF ANALYTICAL LABORATORIES' DATA USABILITY

Nearly all analytical results are considered usable based on the QC information provided by the laboratories and the results of the data validation. The laboratories followed industry-accepted test methods and performed standard QC analyses as required by the laboratory-specific SOPs provided in the approved QAPP (URS, 2005b). Some sample results were reported with elevated reporting limits due to the presence of high concentrations of target compounds or matrix interference. These results are still usable for quantitative purposes; however, the elevated reporting limits may prevent conclusive confirmation that the target chemicals of concern are not present at a specific location if the reporting limit is above the associate risk screening level. Additionally, some results were rejected as a result of the data validation process. Rejected data are not usable for quantitative purposes, but may have some value to the data user as qualitative information to guide further evaluations of the Site and/or ecological conditions. Issues related to blank contamination for the groundwater monitoring program are considered adequately resolved but will continue to be assessed during FS work at the Site.

F.12 REFERENCES

URS, 2005a. Field Sampling Plan, RI/FS Tasks, Revision 02, Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. Remedial Investigation/Feasibility Study (February 2005).

URS, 2005b. Quality Assurance Project Plan RI/FS Tasks, Revision 03, Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. Remedial Investigation/Feasibility Study (February 2005) plus Addendums 1, 2, and 3.

URS 2005c. Remedial Investigation/Feasibility Study (RI/FS) Work Plan Revision 02 Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. (February 2005).

the RI investigations. The technical review was also performed to determine whether information documented in the field logbooks was compliant with the record-keeping requirements specified in the field SOPs (Numbers 100 through 300) found in the FSP (URS, 2005a). The project SOPs require recording field observations, technical data, and health & safety practices that directly affect the field task being conducted. Field log books also are intended to provide sufficient data and observations to enable reconstruction of events that occur while performing field activities. As such, all entries are to be as factual, detailed, and descriptive as appropriate so that a particular situation can be reconstructed without reliance on the author's memory. Field log books are also used to compare and check other field documents.

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The technical review was accomplished using a checklist. The checklist itemizes the criteria used for the review, and lists associated examples of acceptable practices or alternatively, examples of missing information and records. Generally, deficiencies were minor (i.e., those that do not impact the final evidence file for the project significantly) but several deficiencies were considered major (i.e., those that impact the final evidence file since critical data are not present that may be needed to support the findings of the investigation). An example of a minor deficiency was the lack of records to state that field equipment were being decontaminated An example of a major deficiency was the lack of records for calibration of field meters. The completed checklist and findings are provided in Attachment F-1.

F.11 OVERALL SUMMARY OF ANALYTICAL LABORATORIES' DATA USABILITY

Nearly all analytical results are considered usable based on the QC information provided by the laboratories and the results of the data validation. The laboratories followed industry-accepted test methods and performed standard QC analyses as required by the laboratory-specific SOPs provided in the approved QAPP (URS, 2005b). Some sample results were reported with elevated reporting limits due to the presence of high concentrations of target compounds or matrix interference. These results are still usable for quantitative purposes; however, the elevated reporting limits may prevent conclusive confirmation that the target chemicals of concern are not present at a specific location if the reporting limit is above the associate risk screening level. Additionally, some results were rejected as a result of the data validation process. Rejected data are not usable for quantitative purposes, but may have some value to the data user as qualitative information to guide further evaluations of the Site and/or ecological conditions. Issues related to blank contamination for the groundwater monitoring program are considered adequately resolved but will continue to be assessed during FS work at the Site.

F.12 REFERENCES

URS, 2005a. Field Sampling Plan, RI/FS Tasks, Revision 02, Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. Remedial Investigation/Feasibility Study (February 2005).

URS, 2005b. Quality Assurance Project Plan RI/FS Tasks, Revision 03, Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. Remedial Investigation/Feasibility Study (February 2005) plus Addendums 1, 2, and 3.

URS 2005c. Remedial Investigation/Feasibility Study (RI/FS) Work Plan Revision 02 Ashland/NSP Lakefront Superfund Site, Ashland, Wisconsin. (February 2005).

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USEPA. 1983. Methods for Chemical Analysis of Water and Wastes. USEPA/600/4/79/020. U.S. Environmental Protection Agency. March 1983.

USEPA. 1991. Draft Analytical Method for Determination of Acid Volatile Sulfide in Sediment. USEPA (Document Number 821R91100), December 1991. (This method describes procedures for the determination of acid volatile sulfide and for selected metals that solubilized during the acidification step [simultaneously extracted metals].)

USEPA. 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency. October 1999.

USEPA. 2000. Routine Validation of Gamma Spectroscopy Data. ER-SOP15.06, July 20, 2000.

USEPA. 2004a. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency. March 2004.

USEPA. 2004b. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (Final Update IIIB). SW-846. U.S. Environmental Protection Agency. November 1986, April 1998, and November 2004.

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Table F-1
Sampling Periods and Matrices Collected for the RI

Event Date	Sample Matrix	Event Description
June 2004 to March 2005	Groundwater	Quarterly groundwater sampling
March 2005	Air	Vapor probe & indoor air – winter event
April 2005	Soil	Surface & subsurface soil sampling
April 2005	Tissue	Rainbow smelt sampling
May 2005	Sediment	Sediment reconnaissance sampling
May 2005	Surface water	Physical hydraulic parameters
June 2005	Soil	Test pit, surface soil & forensic sampling
June 2005	Tissue	Various fish species sampling
June 2005	Surface water	Surface water sampling – low energy event
June 2005	Sediment	Sediment & forensic sampling
June 2005	Tissue	Benthic invertebrate sampling
July 2005	Groundwater	Passive diffusion bag sampling
July 2005	Air	Vapor probe & indoor air – summer event
September 2005	Sediment	Sediment chemistry & forensic sampling
November 2005	Soil	Test pits – forensic sampling
November 2005	Surface water	Surface water sampling – high energy event

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November 2005	Soil	Test pits – forensic sampling
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Table F-2
Field QC Samples Collected Per Matrix for Each Laboratory

Lab	Method	Matrix	Total No. of Spikes[1]	Total No. of Samples	Total No. Required	Accuracy Requirement Met? (5%)[2]	Total No. of Field Duplicates	Total No. of Samples	Total No. Required	Precision Requirement Met? (10%)[3]
NLS	Metals	Soil/Sed,	36	278	14	Yes	25	278	28	No
NLS	VOCs	Soil/Sed.	32	268	14	Yes	25	268	27	No
NLS	SVOCs	Soil/Sed.	31	418	21	Yes	34	418	42	No
NLS	Metals	Water	64	684	35	Yes	58	684	69	No
NLS	VOCs	Water	45	589	30	Yes	42	589	59	No
NLS	SVOCs	Water	35	522	27	Yes	41	522	53	No
ECCS	PAHs	Sediment	4	18	1	Yes	0	18	2	No[4]
STL VT	PAHs	Tissue	8	142	8	Yes	11	142	15	No[5]
TBE	^{210}Pb and ^{136}Cs	Sediment	N/A[7]	---	N/A	N/A	0	16	2	No
STL TN	TO15	Air	N/A[6]	33	N/A	N/A	1	33	4	No

ECCS-Environmental Chemistry Consulting Services
NLS-Northern Lake Services
PAHs-Polycyclic Aromatic Hydrocarbons
STL-Severn Trent Laboratory (Vermont and Tennessee)
SVOCs-Semi-Volatile Organic Compounds
TBE-Teledyne Brown Engineering
TO15-See Section F.7.2 for method reference.
VOCs-Volatile Organic Compounds
N/A-Not applicable

1. One spike sample was collected for OC pesticide analyses.
2. One matrix spike/matrix spike duplicate (MS/MSD) was required to be collected for every 20 project samples.
3. One field duplicate was required to be collected for every 10 project samples.
4. The laboratory performed MS/MSD analyses to assess method/matrix precision.
5. The tissue samples were not actual field duplicates, but laboratory replicates created by the laboratory after homogenization.
6. Spike analyses are not applicable to air analyses.
7. Spike analyses are not applicable to radiochemistry analyses.

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Table F-3
Comparison of Split-Sample Results for PAHs
ECCS versus NLS

Analyte	Units	NSP-SE-1-13A-DUP	NSP-SE-1-13A-NM		NSP-SE-1-15C-DUP	NSP-SE-1-15C-NM		NSP-SE-1-9A-DUP	NSP-SE-1-9A-NM
	LAB:	NLS	ECCS		NLS	ECCS		NLS	ECCS
1-Methylnaphthalene	ug/kg	32 U	241 U		450	1338		32 U	634 U
2-Methylnaphthalene	ug/kg	31 U	241 U		740	754		31 U	634 U
Acenaphthene	ug/kg	32 U	241 U		710	1143		32 U	634 U
Acenaphthylene	ug/kg	31 U	241 U		2400	3673		31 U	634 U
Anthracene	ug/kg	38 U	241 U		950	2335		38 U	634 U
Benzo(a)anthracene	ug/kg	83 J	241 U		4500	7467		340	698
Benzo(a)pyrene	ug/kg	120	241 U		7300	10823		440	1142
Benzo(b)fluoranthene	ug/kg	110 J	241 U		6400	5570		500	729
Benzo(e)pyrene	ug/kg	73 J	241 U		4400	6372		310	634 U
Benzo(g,h,i)perylene	ug/kg	33 U	241 U		2300	6299		200	634
Benzo(k)fluoranthene	ug/kg	38 U	241 U		2400	6470		160	698
Chrysene	ug/kg	87 J	241 U		4700	7005		390	793
Dibenzo(a,h)anthracene	ug/kg	34 U	241 U		34 U	2554		34 U	634 U
Fluoranthene	ug/kg	100 J	241 U		3600	4962		570	1078
Fluorene	ug/kg	32 U	241 U		570	559		32 U	634 U
Indeno(1,2,3-cd)pyrene	ug/kg	31 U	241 U		1400	4840		140	634 U
Naphthalene	ug/kg	31 U	241 U		880	1435		31 U	634 U
Phenanthrene	ug/kg	63 J	241 U		1800	2554		470	951
Pyrene	ug/kg	140	241 U		6400	8221		620	1205

U=Non-detect result at the laboratory reporting limit.
J=Estimated result below the laboratory reporting limit but above the laboratory MDL.
Laboratory results are corrected for moisture content.
ECCS-Environmental Chemistry Consulting Services
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	LAB:	NLS	ECCS		NLS	ECCS		NLS	ECCS
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ATTACHMENT F-1
Field Logbook Documentation Review

Criteria	Yes	No	N/A	Comment (Major deficiencies are bolded)
A. Set-Up				
1. Is the log book hard bound, water-resistant with water-proof pages?	√			
2. Does the inside of the log book contain the following information: book number, project name and number, contract/project number, site name, start date, end date, person to whom the log book belongs, company name, address, and phone number	√			All log books contained some elements that identified the project; however, complete records were not present in a few cases. Sequential book numbers were not used.
3. At a minimum, do log book entries include the following information at the beginning of each day, as appropriate to the activities: • Date • Time • Weather • H&S meetings/notes • Field personnel present • Equipment used • Procedures to be used		√		All log books contained some elements that identified current conditions; however, complete records were not present. First names of personnel were used frequently, but no surnames. **Field sampling equipment was not specified in all cases.** H&S topics not recorded in all cases.
4. Does the log book contain a description of the exclusion zone and decontamination methods employed?		√		Described infrequently. No decontamination methods were listed in any of the log books reviewed.
5. Does the log book contain a description of the personnel protection equipment being used?		√		No reference to Level D was found.
6. Does the log book contain a description of the procedures for containerization of investigation-derived wastes?		√		Only occasionally described.
B. Log Book Entries				
7. Are entries made in indelible blank or blue ink?	√			One log book entry was made in pencil.
8. Are incorrect entries crossed out with a single line and initialed and dated by the originator?			√	No incorrect entries were observed.

ATTACHMENT F-1
Field Logbook Documentation Review

Criteria	Yes	No	N/A	Comment (Major deficiencies are bolded)
A. Set-Up				
1. Is the log book hard bound, water-resistant with water-proof pages?	√			
2. Does the inside of the log book contain the following information: book number, project name and number, contract/project number, site name, start date, end date, person to whom the log book belongs, company name, address, and phone number	√			All log books contained some elements that identified the project; however, complete records were not present in a few cases. Sequential book numbers were not used.
3. At a minimum, do log book entries include the following information at the beginning of each day, as appropriate to the activities: • Date • Time • Weather • H&S meetings/notes • Field personnel present • Equipment used • Procedures to be used		√		All log books contained some elements that identified current conditions; however, complete records were not present. First names of personnel were used frequently, but no surnames. **Field sampling equipment was not specified in all cases.** H&S topics not recorded in all cases.
4. Does the log book contain a description of the exclusion zone and decontamination methods employed?		√		Described infrequently. No decontamination methods were listed in any of the log books reviewed.
5. Does the log book contain a description of the personnel protection equipment being used?		√		No reference to Level D was found.
6. Does the log book contain a description of the procedures for containerization of investigation-derived wastes?		√		Only occasionally described.
B. Log Book Entries				
7. Are entries made in indelible blank or blue ink?	√			One log book entry was made in pencil.
8. Are incorrect entries crossed out with a single line and initialed and dated by the originator?			√	No incorrect entries were observed.

ATTACHMENT F-1
Field Logbook Documentation Review

Criteria	Yes	No	N/A	Comment (Major deficiencies are bolded)
A. Set-Up				
1. Is the log book hard bound, water-resistant with water-proof pages?	√			
2. Does the inside of the log book contain the following information: book number, project name and number, contract/project number, site name, start date, end date, person to whom the log book belongs, company name, address, and phone number	√			All log books contained some elements that identified the project; however, complete records were not present in a few cases. Sequential book numbers were not used.
3. At a minimum, do log book entries include the following information at the beginning of each day, as appropriate to the activities: • Date • Time • Weather • H&S meetings/notes • Field personnel present • Equipment used • Procedures to be used		√		All log books contained some elements that identified current conditions; however, complete records were not present. First names of personnel were used frequently, but no surnames. **Field sampling equipment was not specified in all cases.** H&S topics not recorded in all cases.
4. Does the log book contain a description of the exclusion zone and decontamination methods employed?		√		Described infrequently. No decontamination methods were listed in any of the log books reviewed.
5. Does the log book contain a description of the personnel protection equipment being used?		√		No reference to Level D was found.
6. Does the log book contain a description of the procedures for containerization of investigation-derived wastes?		√		Only occasionally described.
B. Log Book Entries				
7. Are entries made in indelible blank or blue ink?	√			One log book entry was made in pencil.
8. Are incorrect entries crossed out with a single line and initialed and dated by the originator?			√	No incorrect entries were observed.

Criteria	Yes	No	N/A	Comment (Major deficiencies are bolded)
9. Are entries signed and dated at the bottom of the last page of the log books completed for the day?	√			Some log book entries did not contain dates; some log books were signed with initials only.
10. Are the time records in the log book made using either chronological sequence or 24-clock?	√			There was some mixing of time record formats on a given day.
11. Is a diagonal line used to mark any un-used pages or sections of a page when not used during the day?		√		A diagonal strike line is seldom used to define the end of page and/or completed daily activities.
12. If more than one person enters information for a given day, do both individuals sign and date the entry at the end of the date?			√	None observed.
13. Does the log book define when a photograph is taken?		√		References to photographs were not discussed in any of the logbooks.
14. Is specific information that is compiled in another logbook (e.g., health and safety meeting log, borehole log, sample tracking sheets, field equipment calibration, etc.) referenced in the log book for cross-reference?		√		H&S meeting topics were not listed; **field equipment calibration (e.g., PID) was not listed** in a few cases.
15. Were hand-sketched maps of the site and/or field conditions prepared?	√			Very good use of hand sketches.
16. Did hand sketches provide direction arrows (north), discernible gradients, wind direction, vegetation, man-made structures, surrounding facilities, a scale and/or legend, water flow, or anything else considered important?	√			Good.
17. When collected, does the log book define the field sample identification associated with any environmental, forensics or geophysical samples?	√			Several entries did not provide an accurate name for the field sample collected (e.g., test pit sampling).
18. Where required, does the log book define the date of shipment of samples, courier method, and time released?		√		Many entries did not provide an accurate listing.
C. Log Book Review				
19. Does the Project Manager review the log book entry and sign and date his/her review?		√		No project manager reviews were observed in any of the log books.
20. Are acronyms defined?		√		Abundant use of acronyms, but no definitions provided.
21. Other items: Work summaries	√			Several log books created an "end of day" summary of all the tasks completed. This is an excellent practice. Some information not recorded during the day was later documented in the "daily summary."

Criteria	Yes	No	N/A	Comment (Major deficiencies are bolded)
9. Are entries signed and dated at the bottom of the last page of the log books completed for the day?	√			Some log book entries did not contain dates; some log books were signed with initials only.
10. Are the time records in the log book made using either chronological sequence or 24-clock?	√			There was some mixing of time record formats on a given day.
11. Is a diagonal line used to mark any un-used pages or sections of a page when not used during the day?		√		A diagonal strike line is seldom used to define the end of page and/or completed daily activities.
12. If more than one person enters information for a given day, do both individuals sign and date the entry at the end of the date?			√	None observed.
13. Does the log book define when a photograph is taken?		√		References to photographs were not discussed in any of the logbooks.
14. Is specific information that is compiled in another logbook (e.g., health and safety meeting log, borehole log, sample tracking sheets, field equipment calibration, etc.) referenced in the log book for cross-reference?		√		H&S meeting topics were not listed; **field equipment calibration (e.g., PID) was not listed** in a few cases.
15. Were hand-sketched maps of the site and/or field conditions prepared?	√			Very good use of hand sketches.
16. Did hand sketches provide direction arrows (north), discernible gradients, wind direction, vegetation, man-made structures, surrounding facilities, a scale and/or legend, water flow, or anything else considered important?	√			Good.
17. When collected, does the log book define the field sample identification associated with any environmental, forensics or geophysical samples?	√			Several entries did not provide an accurate name for the field sample collected (e.g., test pit sampling).
18. Where required, does the log book define the date of shipment of samples, courier method, and time released?		√		Many entries did not provide an accurate listing.
C. Log Book Review				
19. Does the Project Manager review the log book entry and sign and date his/her review?		√		No project manager reviews were observed in any of the log books.
20. Are acronyms defined?		√		Abundant use of acronyms, but no definitions provided.
21. Other items: Work summaries	√			Several log books created an "end of day" summary of all the tasks completed. This is an excellent practice. Some information not recorded during the day was later documented in the "daily summary."

Criteria	Yes	No	N/A	Comment (Major deficiencies are bolded)
9. Are entries signed and dated at the bottom of the last page of the log books completed for the day?	√			Some log book entries did not contain dates; some log books were signed with initials only.
10. Are the time records in the log book made using either chronological sequence or 24-clock?	√			There was some mixing of time record formats on a given day.
11. Is a diagonal line used to mark any un-used pages or sections of a page when not used during the day?		√		A diagonal strike line is seldom used to define the end of page and/or completed daily activities.
12. If more than one person enters information for a given day, do both individuals sign and date the entry at the end of the date?			√	None observed.
13. Does the log book define when a photograph is taken?		√		References to photographs were not discussed in any of the logbooks.
14. Is specific information that is compiled in another logbook (e.g., health and safety meeting log, borehole log, sample tracking sheets, field equipment calibration, etc.) referenced in the log book for cross-reference?		√		H&S meeting topics were not listed; **field equipment calibration (e.g., PID) was not listed** in a few cases.
15. Were hand-sketched maps of the site and/or field conditions prepared?	√			Very good use of hand sketches.
16. Did hand sketches provide direction arrows (north), discernible gradients, wind direction, vegetation, man-made structures, surrounding facilities, a scale and/or legend, water flow, or anything else considered important?	√			Good.
17. When collected, does the log book define the field sample identification associated with any environmental, forensics or geophysical samples?	√			Several entries did not provide an accurate name for the field sample collected (e.g., test pit sampling).
18. Where required, does the log book define the date of shipment of samples, courier method, and time released?		√		Many entries did not provide an accurate listing.
C. Log Book Review				
19. Does the Project Manager review the log book entry and sign and date his/her review?		√		No project manager reviews were observed in any of the log books.
20. Are acronyms defined?		√		Abundant use of acronyms, but no definitions provided.
21. Other items: Work summaries	√			Several log books created an "end of day" summary of all the tasks completed. This is an excellent practice. Some information not recorded during the day was later documented in the "daily summary."